



## EARLY WORKS PLAN - FOR APPROVAL

TAS-CYP-PW-ZWD-MPL-XLP-NAP-50001

REVISION E

Internal Reference Number: TAS-CYP-SDL-ZWD-PLA-XLP-NAP-X0001



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## ACKNOWLEDGEMENT TO COUNTRY

We acknowledge the land on which the Metro Tunnel Project is being delivered, is the traditional land for the People of the Kulin Nation. We respect their spiritual beliefs and acknowledge their ongoing connection with their Country.

We would also like to pay our respect to Elders past, present and future.

# DOCUMENT VERIFICATION

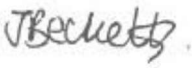

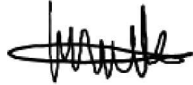
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			<b>Prepared by</b>	<b>Checked by</b>	<b>Approved by</b>
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		<b>Signature</b>			

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Revision	Date	File name	MM - CYP Early Works Plan for Approval		
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			<b>Prepared by</b>	<b>Checked by</b>	<b>Approved by</b>
		<b>Name</b>	Jenna Beckett	Mat Peel	Mark Wells
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Revision	Date	File name			
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		<b>Name</b>	Jenna Beckett	Caitlin Jackson	Mark Wells
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<b>Revision</b>	Date	File name	MM - CYP Early Works Plan for Approval		
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		<b>Signature</b>			

## DEFINITIONS

The following specific definitions apply to this plan:

## STANDARD TERMS AND DEFINITIONS

Term	Definition
<b>D&amp;C Subcontractor</b>	D&C Subcontractor to Project Co (being the unincorporated joint venture comprising Lendlease Engineering Pty Limited, John Holland Pty Limited, and Bouygues Construction Australia Pty Ltd)
<b>Maintenance Subcontractor</b>	Maintenance Subcontractor to Project Co (being John Holland Pty Limited)
<b>Package Contractors</b>	Contractors for the Early Works, TAS PPP, RSA and RIA work Packages in the Metro Tunnel Project
<b>Project</b>	Metro Tunnel Project (MTP)
<b>Project Co</b>	Cross Yarra Partnership
<b>TAS Package</b>	The Tunnel and Stations PPP Package

## OTHER TERMS AND DEFINITIONS

Term	Definition
<b>Construction Environment Management Plan (CEMP)</b>	Overarching document which details the management of environmental aspects and impacts associated with the delivery of the works (forms part of the Contractor Agreement). The document has been prepared in accordance with the applicable requirements of the Incorporated Document (Clause 4.7.3).
<b>Cross Yarra Partnership (CYP)</b>	Cross Yarra Partnership (CYP) is the Contractor selected by Rail Projects Victoria (RPV) as the preferred proponent to design, build and maintain the Tunnels and Stations PPP work package for the Metro Tunnel Project
<b>CPTED</b>	Crime Prevention Through Environmental Design
<b>Early Works</b>	Works identified as Early Works in the Melbourne Metro Rail Project's EES (Section 6.5.10). Works in this phase can only commence following approval of an applicable Early Works Plan.  Early Works is undertaken by various Contractors including CYP, the Early Works Managing Contractor, and Yarra Trams.
<b>Enabling Works</b>	Works identified in Victorian Government Gazette No. S361 (24 November 2015) and excluded from assessment under the EES.
<b>Environment Effects Statement (EES)</b>	Assessment of the potential environmental, social and business impacts associated with the proposed construction and operation of Metro Tunnel under the <i>Environment Effect Act 1978</i> .
<b>Environmental Management Framework (EMF)</b>	Refer to Clause 4.7 of the Incorporated Document - the EMF (Part 1 and Part 2), including EPRs, was approved by the Minister for Planning on 26 March 2017.

Term	Definition
<b>Environmental Performance Requirements (EPRs)</b>	Performance requirements as detailed within the approved EMF.
<b>Incorporated Document</b>	Incorporated Document for the Melbourne Metro Rail Project (May 2017) as referenced in The Maribyrnong, Melbourne, Port Phillip and Stonnington Planning Schemes.
<b>Key stakeholders</b>	<p>The term stakeholder refers to any person or organisation with an interest in the project. To determine key stakeholders the following factors need to be considered:</p> <ul style="list-style-type: none"> <li>Whether a stakeholder has a regulatory or approval role in a given activity.</li> <li>Whether the stakeholder represents an impacted facility or activity that is of importance to the wider community.</li> <li>Whether a stakeholder possesses unique knowledge or skills that would contribute to a significantly better solution.</li> <li>Whether a stakeholder can effectively represent the views or interests of many of those impacted by a given activity.</li> </ul>
<b>Land Subject to Inundation Overlay (LSIO)</b>	Land Subject to Inundation Overlay (LSIO).
<b>Main Works</b>	All Project works other than early works, enabling works and preparatory works
<b>Metro Tunnel</b>	Melbourne Metro Rail Project as identified within the Incorporated Document.
<b>Minister's Assessment</b>	Minister's Assessment of the Metro Tunnel EES as made under the <i>Environment Effects Act 1978</i> (dated December 2016).
<b>Minor Utility Installation</b>	As defined under Clause 74 of the Victorian Planning Provisions.
<b>OVGA</b>	Office of Victoria Government Architect
<b>Planning Scheme Amendment (PSA)</b>	Planning Scheme Amendment GC67.
<b>PTMP</b>	Precinct Transport Management Plans
<b>Preparatory Works</b>	Works identified under clause 4.12 of the Melbourne Metro Rail Project Incorporated Document (May 2017) that are preparatory to the carrying out of works identified as Early Works or Main Works in the Melbourne Metro Rail Project's EES (Section 6.5.10). Works in this phase may proceed prior to the approval of plans or other matters listed in Clauses 4.6 to 4.9 of the Incorporated Document.
<b>Prescribed Stakeholders</b>	Stakeholders as specifically identified under Clause 4.9.4 of the Incorporated Document. This includes the relevant Councils, affected utility service providers, Roads Corporation, Public Transport Development Authority, Melbourne Water and Heritage Victoria.
<b>Principal Environmental and Planning Approvals</b>	Key approvals required for the delivery of Metro Tunnel. Includes statutory requirements associated with the <i>Planning and Environment Act 1987</i> (i.e. obligations stemming from the Incorporated Document), the <i>Heritage Act 2017</i> (i.e. Permits and Consents) and the <i>Aboriginal Heritage Act 2006</i> (i.e. Cultural Heritage Management Plan).
<b>Project Land</b>	Land as identified within Appendix 1 of the Incorporated Document.

Term	Definition
<b>Rail Projects Victoria (RPV)</b>	Rail Projects Victoria is a division of the Major Transport Infrastructure Authority.
<b>Road and transport network changes</b>	Some of the road and transport network changes identified in the EES will have greater or longer term impacts during construction and so require a more detailed approach within the Early Works Plan to appropriately manage impacts in accordance with the EMF and EPRs. Subsequently, road and transport network changes include activities that would result in permanent/long-term alteration of access to a road zoned Road Zone 1 (RDZ1) (and would ordinarily require consideration pursuant to <i>Clause 52.29 – Land Adjacent to a Road Zone, Category 1, or a Public Acquisition Overlay for a Category 1 Road</i> of the applicable planning scheme), or works which may have a significant impact on key pedestrian links.
<b>Sensitive Receptor</b>	Sensitive receptors as per relevant statutory guidelines, including homes, schools, universities and hospitals, or places where a person’s regular daily life might be affected by amenity impacts as a consequence of the Project. Sensitive receptors do not include public open space or places of work.
<b>SEIPs</b>	Subordinate to the CEMP are the Site Environment Implementation Plans (SEIPs) which describe how environmental aspects and impacts will be managed at each distinct area (precinct) within the Project.
<b>SBO</b>	Special Building Overlay (SBO).
<b>TMIP</b>	Transport Management Implementation Plan.
<b>TMP</b>	Transport Management Plan.
<b>UDS</b>	Refer to Clause 4.8 of the Incorporated Document – the Urban Design Strategy (UDS) was approved by the Minister for Planning on 16 February 2017.
<b>Victorian Heritage Inventory (VHI)</b>	Inventory of historical archaeological sites which are identified and protected under the <i>Heritage Act 2017</i> .
<b>Victorian Heritage Register (VHR)</b>	Register of significant heritage places or/or objects which are identified and protected under the <i>Heritage Act 2017</i> .

## PROJECT AND SCOPE

The Metro Tunnel Project is one of the largest transport infrastructure projects ever undertaken in Australia. It will deliver twin nine kilometre rail tunnels from Kensington to South Yarra as part of a new end-to-end Sunshine to Dandenong line. In addition to the tunnel, new underground stations (with names as depicted below) will be established within the Domain, CBD South, CBD North, Parkville, and Arden Precincts.





# CONTENTS

<b>ACKNOWLEDGEMENT TO COUNTRY</b> .....	<b>1</b>
<b>DOCUMENT VERIFICATION</b> .....	<b>2</b>
<b>DEFINITIONS</b> .....	<b>4</b>
STANDARD TERMS AND DEFINITIONS.....	4
OTHER TERMS AND DEFINITIONS.....	4
<b>PROJECT AND SCOPE</b> .....	<b>7</b>
<b>1. INTRODUCTION</b> .....	<b>10</b>
1.1. PURPOSE.....	10
1.2. CONTEXT OF EARLY WORKS.....	10
1.3. PROJECT DESCRIPTION.....	12
<b>2. METRO TUNNEL WORKS PROGRAM</b> .....	<b>15</b>
2.1. ENABLING WORKS.....	15
2.2. PREPARATORY WORKS.....	15
2.3. EARLY WORKS.....	15
2.4. MAIN WORKS.....	16
<b>3. SCOPE OF EARLY WORKS</b> .....	<b>17</b>
3.1. UTILITY SERVICE RELOCATIONS.....	17
3.2. SITE PREPARATION WORKS.....	17
<b>4. SUMMARY OF EARLY WORKS</b> .....	<b>21</b>
4.1. WESTERN PORTAL (PRECINCT 2).....	21
4.2. INTAKE SUB-STATION (PRECINCT 3).....	25
4.3. ARDEN PRECINCT (PRECINCT 4).....	28
4.4. PARKVILLE PRECINCT (PRECINCT 5).....	30
4.5. CBD NORTH PRECINCT (PRECINCT 6).....	34
4.6. CBD SOUTH PRECINCT (PRECINCT 7).....	37
4.7. DOMAIN PRECINCT (PRECINCT 8).....	39
4.8. EASTERN PRECINCT (PRECINCT 9).....	43
<b>5. PROCESS AND CONTROLS FOR DELIVERING THE EARLY WORKS</b> .....	<b>46</b>
5.1. ENVIRONMENTAL MANAGEMENT FRAMEWORK.....	46
5.2. CYP EARLY WORKS PROCESSES AND CONTROLS.....	48
5.3. URBAN DESIGN STRATEGY.....	87
<b>6. CYP COMMUNICATION AND STAKEHOLDER APPROACH</b> .....	<b>90</b>
6.1. EARLY WORKS PLAN CONSULTATION PROCESS.....	91

<b>7. CHANGE MANAGEMENT .....</b>	<b>94</b>
<b>8. CONCLUSION.....</b>	<b>95</b>
<b>APPENDICES .....</b>	<b>96</b>
<b>APPENDIX A SITE LAYOUT PLANS &amp; TREE TABLES .....</b>	<b>97</b>

# 1. INTRODUCTION

## 1.1. PURPOSE

Cross Yarra Partnership (CYP) has been selected by Rail Projects Victoria (RPV) as the preferred proponent to design, build and maintain the stations and tunnels for the Metro Tunnel Project (the Project). Consistent with the requirements detailed under Clause 4.9.3 of the Incorporated Document for the Melbourne Metro Rail Project (dated May 2017) (referred to herein in as the Incorporated Document), the purpose of this Early Works Plan is to demonstrate how the applicable works are to be carried out in accordance with the approved Environmental Performance Requirements (EPRs) and the approved Urban Design Strategy (UDS).

To achieve this CYP is required to establish and maintain an Environmental Management System, Construction Environment Management Plan, and Site Environment Implementation Plans, as required under the approved Environmental Management Framework (EMF). An Independent Environmental Auditor will audit project systems and documentation throughout, as required by the EMF, to ensure compliance with the EPRs.

## 1.2. CONTEXT OF EARLY WORKS

The framework for the approval of the Project allows for certain works to occur at early stages to prepare critical works sites and help facilitate the timely delivery of the Main Works. Such Early Works are being undertaken by the following Contractors:

- Cross Yarra Partnership (CYP) has been selected as the preferred proponent for the Tunnels and Stations Public Private Partnership. The Early Works delivered by CYP is subject to this Early Works Plan.
- John Holland Pty Ltd (JHG) has been designated as the Early Works Managing Contractor for the delivery of the Early Works Package. The Early Works delivered by JHG are not subject to this Early Works Plan.
- Yarra Trams is delivering the Tram Works Package, which includes Early Works. The Early Works delivered by Yarra Trams are not subject to this Early Works Plan.
- Beon Energy Solutions are delivering the construction power as Development Plan Works at Domain and Arden for the installation of Tunnel Boring Machine substation. These Development Plan Works are not the subject of this Early Works Plan.
- Rail Systems Alliance is yet to prepare an Early Works Plan
- Rail Infrastructure Alliance was awarded to a consortium comprising of John Holland, CPB Contractors and AECOM in September 2019 (refer to Figure 1).

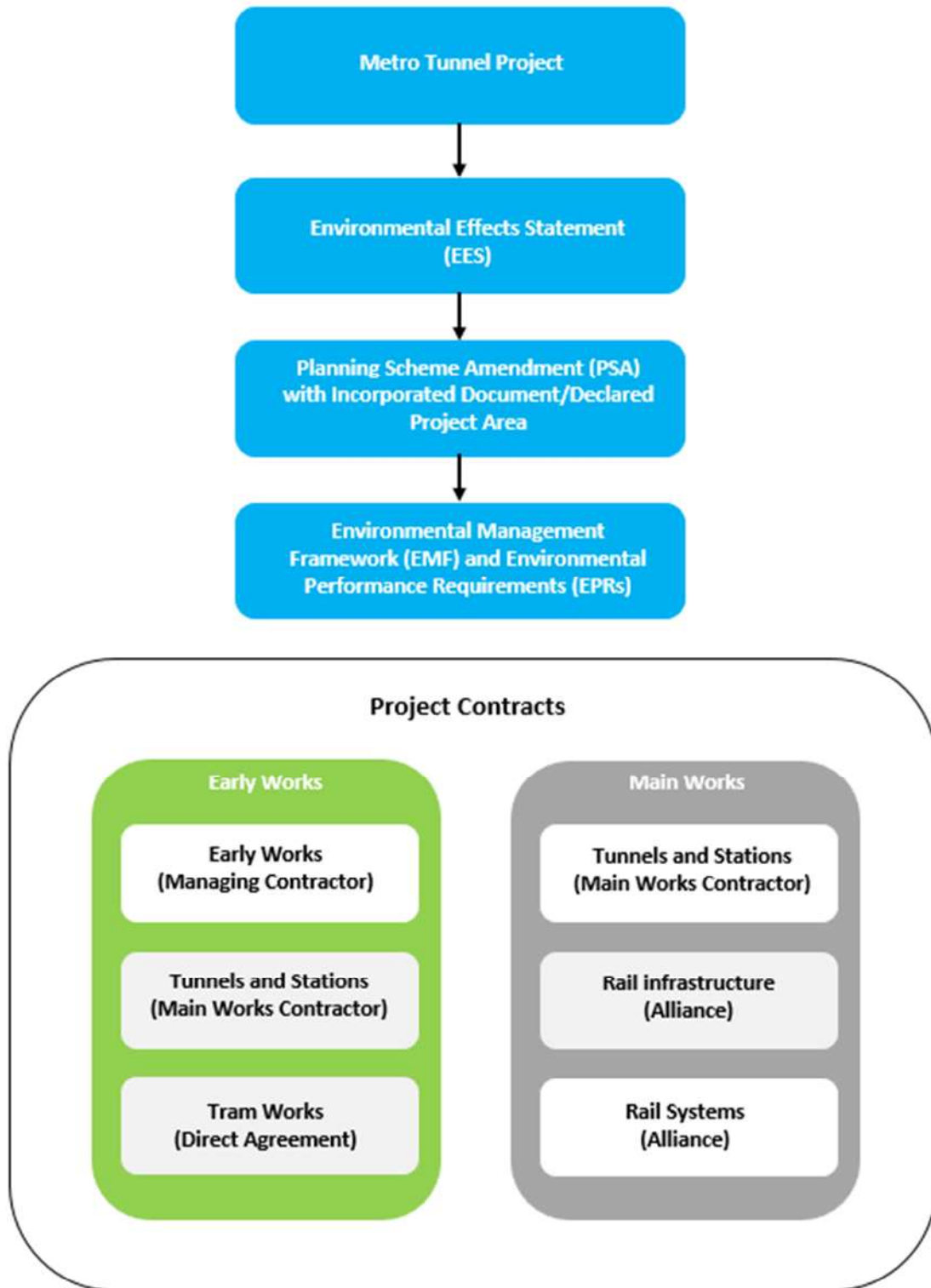


Figure 1: Governance framework for the delivery of the Metro Tunnel Project

## 1.3. PROJECT DESCRIPTION

### 1.3.1. BACKGROUND

In early 2015 the Victorian Government announced that it was committed to the delivery of the Project. RPV (formerly known as the Melbourne Metro Rail Authority (MMRA)) was established as an administrative office of the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) and tasked with the delivery of the Project. RPV is now a division of the Major Transport Infrastructure Authority (MTIA), established on 1 January 2019. The MTIA is responsible to the Minister for Transport Infrastructure.

### 1.3.2. METRO TUNNEL PROJECT

The Project comprises twin nine kilometre rail tunnels between Kensington in the inner west and South Yarra in the inner southeast of Melbourne that will connect the Sunbury and Pakenham/Cranbourne lines. The Project will provide five new inner city underground railway stations at Arden (western end of Queensberry Street in North Melbourne), Parkville (Grattan Street and Royal Parade), CBD North (Swanston Street between Victoria Street and La Trobe Street), CBD South (Swanston Street between Collins Street and Flinders Street) and Domain (St Kilda Road between Domain Road and Toorak Road) (refer to Figure 2). The Project is intended to significantly increase inner city station capacity and open the Parkville and Domain precincts to the rail network.

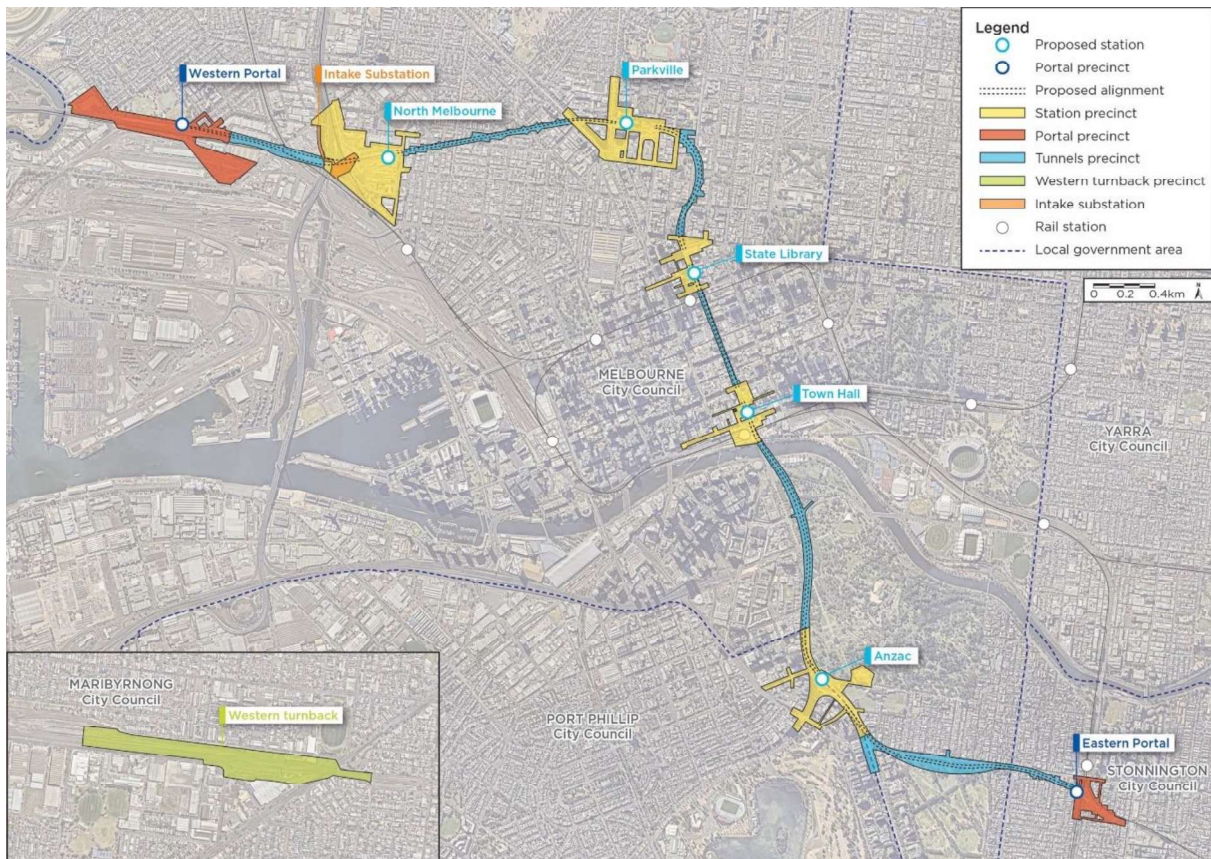


Figure 2: Precincts as identified within Project Land (refer to Appendix 1 of the Incorporated Document).

The area directly affected by the Project comprises land that is currently used for railway or road purposes, developed urban land (including land in Melbourne’s central business district), and parkland. The Project’s alignment commences at the Western Portal east of the Maribyrnong River, passes under Moonee Ponds

Creek near CityLink and the Yarra River adjacent to Princes Bridge and returns to the surface at the Eastern Portal in the rail reserve at South Yarra, between Toorak Road and Chapel Street. For assessment purposes, the Project has been divided into ten precincts based on the location and nature of project components and construction works, the potential impacts on local areas and the characteristics of surrounding communities (refer to Table 1 for further details):

1. Tunnels (not applicable to the Early Works)
2. Western Portal (Kensington)
3. Intake Substation (Arden)
4. Arden Precinct (North Melbourne Station)
5. Parkville Precinct (Parkville Station)
6. CBD North Precinct (State Library Station)
7. CBD South Precinct (Town Hall Station)
8. Domain Precinct (Anzac Station)
9. Eastern portal (South Yarra)
10. Western Turnback (West Footscray) (not applicable to the Early Works).

A detailed description of the Project is provided in Volume 1, Chapter 6 of the EES. The Project and its potential effects on the environment are presented in the EES in the context of a concept design and specific alternative design options.

Table 1: Site Context for precincts where Early Works are proposed.

Precinct	Description
<b>Western Portal – Kensington (Precinct 2)</b>	<ul style="list-style-type: none"> <li>• Vicinity of South Kensington station</li> <li>• Contains housing, public open space (JJ Holland Park) and an industrial estate to the north</li> <li>• Railway lines and a freight terminal to the south</li> </ul>
<b>Intake Substation (Precinct 3)</b>	<ul style="list-style-type: none"> <li>• Located within the Macaulay depot area rail corridor, directly adjacent to the Arden precinct</li> <li>• The site is adjacent to the Craigieburn and Sunbury line active rail corridors, the CityLink toll road and the Moonee Ponds Creek Trail</li> <li>• The site currently houses a disused Metro Trains Melbourne (MTM) building</li> </ul>
<b>Arden Precinct (North Melbourne Station) (Precinct 4)</b>	<ul style="list-style-type: none"> <li>• Characterised by wide streets, low rise development and a mix of land uses, including light and heavy industrial and residential</li> <li>• Currently dominated by a 14 ha publicly owned industrial site managed by VicTrack</li> <li>• Expected to undergo extensive urban renewal over the next 20 years</li> </ul>
<b>Parkville Precinct (Parkville Station) (Precinct 5)</b>	<ul style="list-style-type: none"> <li>• Dominated by health and education uses, including major hospitals, leading research institutes and the University of Melbourne</li> <li>• Land uses range from high density development to residential areas with a strong heritage character</li> <li>• Precinct features the historic, tree-lined boulevards of Royal Parade and Flemington Road, and heritage structures within University of Melbourne grounds</li> </ul>

Precinct	Description
<b>CBD North Precinct (State Library Station) (Precinct 6)</b>	<ul style="list-style-type: none"> <li>• Situated within Melbourne Central Business District (CBD)</li> <li>• Currently characterised by a range of land uses including:               <ul style="list-style-type: none"> <li>– RMIT University</li> <li>– Apartment towers</li> <li>– Melbourne Central Shopping Centre</li> <li>– State Library</li> <li>– Melbourne Central Station</li> <li>– Melbourne City Baths</li> </ul> </li> <li>• Highly developed with a diverse mix of modern and heritage buildings</li> </ul>
<b>CBD South Precinct (Town Hall Station) (Precinct 7)</b>	<ul style="list-style-type: none"> <li>• Situated within Melbourne CBD</li> <li>• Dense inner urban area</li> <li>• Centred on the Swanston Street corridor between Collins and Flinders streets at the southern edge of the CBD</li> <li>• Site of several Melbourne landmarks and visitor destinations, such as:               <ul style="list-style-type: none"> <li>– Federation Square</li> <li>– St Paul's Cathedral</li> <li>– Young and Jacksons Hotel</li> <li>– Melbourne Town Hall</li> <li>– City Square</li> <li>– Flinders Street Station</li> </ul> </li> <li>• Numerous laneways lined with bars, cafes and retail outlets</li> </ul>
<b>Domain Precinct (Anzac Station) (Precinct 8)</b>	<ul style="list-style-type: none"> <li>• Dominated by parks and gardens and the Shrine of Remembrance along the east side of St Kilda Road, north of Domain Road</li> <li>• Precinct features the historic, tree-lined boulevard of St Kilda Road</li> <li>• Offices and residential apartments feature along the west side of St Kilda Road</li> <li>• Melbourne Grammar School and commercial premises are located along the east side of St Kilda Road</li> </ul>
<b>Eastern Portal – South Yarra (Precinct 9)</b>	<ul style="list-style-type: none"> <li>• Highly urbanised and comprises of mixed use development and a range of housing types, from detached housing to large residential apartment blocks</li> <li>• Borders one of Melbourne's busiest retail and entertainment precincts, centred on Toorak Road and Chapel Street</li> </ul>

## 2. METRO TUNNEL WORKS PROGRAM

Work on the Project is proposed to proceed in phases. These are described below and are variously referred to in the text of the Minister's Assessment of the EES.

### 2.1. ENABLING WORKS

Enabling Works are identified in Victorian Government Gazette No. S361 (24 November 2015) and were excluded from assessment under the EES.

### 2.2. PREPARATORY WORKS

Preparatory Works are defined under Clause 4.12 of the Incorporated Document, and are intended to commence prior to the approval of an Early Works Plan or Development Plan in accordance with Clause 4.12.2. These include Preparatory Works such as:

- a) Works, including vegetation removal, that would not require a permit under the provisions of the Planning Schemes that, but for the Incorporated Document, would apply to the relevant land
- b) Investigations, surveys, testing and preparatory works to determine the suitability of land
- c) Creation of construction access points
- d) Establishment of environmental and traffic controls
- e) Fencing and temporary barriers to enable preparatory works
- f) Utility service relocations and protection works limited to the following locations only:
  - i. in the CBD North Precinct that are preparatory to works for the construction of shafts at Franklin and A'Beckett streets (including associated tree removal)
  - ii. on Flinders Lane between Russell and Swanston streets that are preparatory to works for shaft construction at City Square
  - iii. at Toorak Road West (between St Kilda Road and Leopold Street) that are preparatory to works associated with diverting tram services along Toorak Road West to connect with St Kilda Road.

### 2.3. EARLY WORKS

Early Works are referred to under Clause 4.9 of the Incorporated Document and as described within the EES, and are intended to commence prior to the approval of Development Plans but after the approval of the EMF (including EPRs) and UDS. Early Works include activities which are the responsibility of a number of contractors (including CYP). In accordance with Clause 4.9.7, Early Works cannot commence until such time as an Early Works Plan has been formally approved by the Minister for Planning.

#### 2.3.1. EARLY WORKS

Early Works is defined as including activities such as:

- Utility service relocation and protection of utility assets
- Site preparation works, including demolition works, removal or relocation of trees and monuments, minor road / transport network changes
- Works for construction of shafts at CBD North and CBD South Precincts.



### 2.3.2. OTHER EARLY WORKS

The Early Works Managing Contractor and Yarra Trams Early Works are part of other contracts and therefore approval obligations will be addressed via separate Early Works Plans.

## 2.4. MAIN WORKS

Main Works encompass the main body of the Project works and are subject to the preparation and approval of Development Plans, and are not considered in this Early Works Plan. In relation to environmental compliance, the Main Works activities are subject to the same EPRs as are outlined in the Development Plans. In accordance with Clause 4.6 of the Incorporated Document, Main Works cannot commence until a Development Plan has been approved for the applicable works.

## 3. SCOPE OF EARLY WORKS

To help summarise the nature and extent of activities associated with the delivery of Early Works, Early Works have been grouped into the following categories:

- Utility Service Relocations
- Site Preparation Works
  - Monument and Plaque Removal/Relocation
  - Tree Management Considerations
  - Road and Transport Network Changes
  - Property Demolition Works
  - Associated Construction Activities.

A summary of activities as applicable to each precinct has been provided under Section 4 of this Plan, whilst the processes and controls for delivering Early Works have been identified within Section 5. In addition to demonstrating compliance with the approved EMF and UDS, Section 6 outlines the approach to community notification and engagement in relation to Early Works and identifies management initiatives which are to be adopted to help mitigate against the potential for adverse impacts.

### 3.1. UTILITY SERVICE RELOCATIONS

The delivery of Early Works involves the relocation and installation of utility services which are not explicitly captured as Enabling Works and/or Preparatory Works (refer to Section 2). Such works are varied throughout each precinct and are broadly identified under Section 4 of this Plan. Whilst a substantial number of utility relocations were undertaken by the Early Works Managing Contractor, some utility relocations remain and indicative locations have been shown on the figures included in Appendix A. When undertaking utility relocations, CYP will work within the constraints of the site to mitigate against the potential for adverse amenity impacts and business disruption. These works are to be delivered in accordance with the applicable EPRs (refer to Section 5).

### 3.2. SITE PREPARATION WORKS

#### 3.2.1. MONUMENT AND PLAQUE REMOVAL / RELOCATION

The delivery of Early Works involves the removal, storage and/or relocation of a number of monuments and plaques, in consultation with the applicable owner and/or manager. In addition to this, a range of additional approvals will need to be sought in accordance with regulatory, statutory (i.e. obligations stemming from heritage permits, and requirements of the EMF as approved under Clause 4.7 of the Incorporated Document) and contractual obligations.

It is CYP's responsibility to dismantle and store (where applicable) the monuments and plaques, and comply with conditions of heritage permit and/or any other approvals. Where necessary, works are to be overseen by a qualified heritage consultant to help mitigate the potential for any unintended damage.

The extent of monument and plaque removal/relocation within each precinct is summarised in Section 4 of this Plan, whilst a response to the applicable EPRs is detailed under Section 5.

### 3.2.2. TREE MANAGEMENT AND REMOVAL

The delivery of Early Works involves the removal of trees in each precinct in order to undertake the necessary works. A design and construction hierarchy has been adopted to inform activities undertaken around trees. This approach has been taken in recognition of sensitivities associated with trees throughout the Project Land. The design and construction hierarchy as adopted for the delivery of Early Works includes the following steps:

1. Avoid works within designated Tree Protection Zones:
  - Tree Protection Zones are to be allocated in accordance with AS 4970-2009 Protection of Trees on Development Sites
  - Where practical, priority is to be given to the relocation of infrastructure away from trees to reduce the potential for immediate or future damage
2. If works are required within a designated Tree Protection Zone:
  - Works are to be undertaken in accordance with advice as received from the Project Arborist
  - Where excavation works are proposed within a Tree Protection Zone, the Project Arborist must prepare a Tree Protection Plan. A Tree Protection Plan must include details in relation to the condition and significance of each tree, and the arboricultural feasibility for relocation (if necessary)
  - Open trenching is to be avoided unless it is demonstrated by the Project Arborist that the viability of the tree will not be affected.
3. Tree and/or root pruning is to only be pursued in instances where it has been assessed by the Project Arborist as not having a detrimental impact on the viability of the tree. Such works must be undertaken in accordance with Australian Standard AS4373-2007 – Pruning of Amenity Trees.
4. Tree removal is to be pursued only as a last resort/exception, with preference to be given to trees that will require removal to facilitate the main works program (i.e. trees situated within the designated station boxes).

All works must be undertaken in accordance with the EMF / EPRs, and all tree removal is to progress in accordance with an agreed Ecology Management Plan, which includes timely notification of the asset owner/manager and nearby residents (refer to Section 5 and Figure 3).

### 3.2.3. ROAD TRANSPORT NETWORK CHANGES

Works associated with road and transport network changes are to progress in consultation with Councils, VicRoads and other applicable stakeholders as identified under Clause 4.9.4 and 4.11.1 of the Incorporated Document. Such works include activities that would result in permanent/long-term alteration of access to a road zoned Road Zone 1 (RDZ1) (and therefore would ordinarily require consideration pursuant to Clause 52.29 – Land Adjacent to a Road Zone, Category 1, or a Public Acquisition Overlay for a Category 1 Road of the applicable planning scheme), or works which may have a significant impact on key pedestrian links.

Additional approvals will need to be sought in accordance with regulatory and contractual obligations (including the requirements of the EMF – refer to Section 5.1 of this Plan). For all works this includes appropriate management of bicycle and pedestrian movements to minimise disruption, and for road and transport changes it includes the maintenance/establishment of appropriate access to building entrances and loading facilities of neighbouring developments. It also includes appropriate notification of affected stakeholders in accordance with the Community and Stakeholder Engagement Management Plan (as identified under Section 5.2.5) and the Transport Management Plan (as identified under Section 5.2.6). Precinct Transport Management Plans (PTMPs) and Transport Management Implementation Plans (TMIPs) provide further detail on how transport (road, tram, bicycle and pedestrian) are managed throughout all phases of project works.

### 3.2.4. PROPERTY DEMOLITION WORKS

A single property demolition is required to be undertaken as part of the delivery of Early Works at Western Portal Precinct to help establish critical work sites. Tree removal is required to allow these demolition works to occur. Section 4 of this Plan provides further detail on the demolition works associated with the delivery of Early Works, whilst Section 5 outlines how the applicable works will be undertaken in accordance with the approved EPRs and UDS.

### 3.2.5. ASSOCIATED CONSTRUCTION ACTIVITIES

Associated construction activities capture elements of Early Works which are considered site preparation or establishment works which do not fall within any of the above-mentioned headings, however, are activities that would ordinarily require planning permission. Such activities include construction works (including installation of hoarding) within a designated Heritage Overlay (not listed as under the Victorian Heritage Register), and long-term car parking/access changes that would ordinarily trigger the need for a planning permit (under the provisions of Clause 52.06 - Car Parking). This does not preclude the need for other statutory approvals that may need to be obtained in advance of works commencing (i.e. permits under the Road Management Act, Building Regulations, Heritage Act, etc.). Details of equipment and facilities proposed to be established within hoarded construction sites are also provided as they relate to Early Works, noting that operation of any plant or equipment required for tunnelling and shaft construction is considered a Main Works activity.

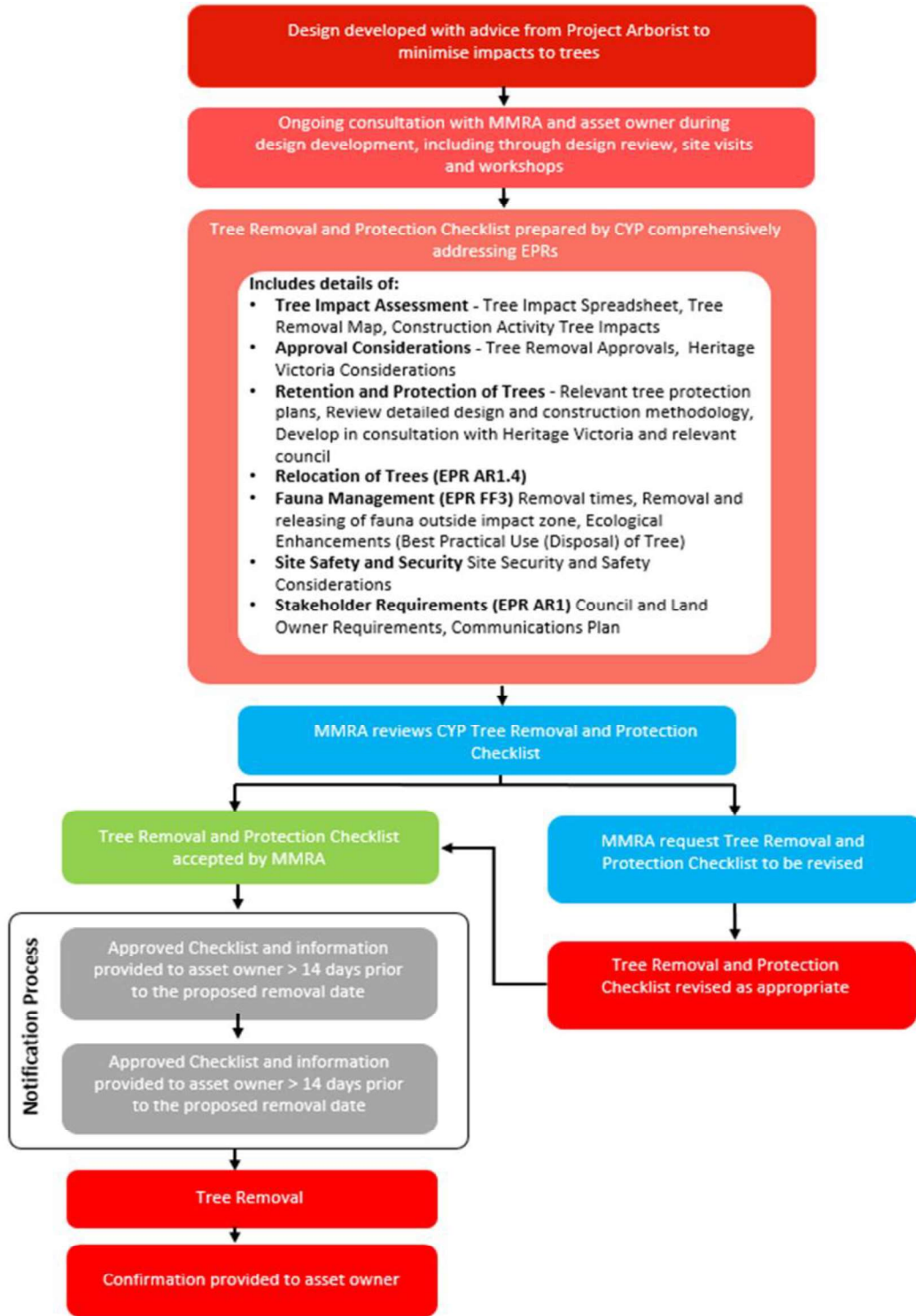


Figure 3: Flow chart detailing the process for considering tree removal as part of the delivery of the CYP Early Works

## 4. SUMMARY OF EARLY WORKS

The following summary accounts for activities and impacts directly associated with the Early Works phase as applicable at the following precincts (noting that works carried out as Enabling Work or Preparatory Work have not been identified as they are not subject to the approval of an Early Works Plan):

- Western Portal (Precinct 2)
- Intake Substation (Precinct 3)
- Arden Precinct (North Melbourne Station) (Precinct 4)
- Parkville Precinct (Parkville Station) (Precinct 5)
- CBD North Precinct (State Library Station) (Precinct 6)
- CBD South Precinct (Town Hall Station) (Precinct 7)
- Domain Precinct (Anzac Station) (Precinct 8)
- Eastern Portal (Precinct 9).

### 4.1. WESTERN PORTAL (PRECINCT 2)

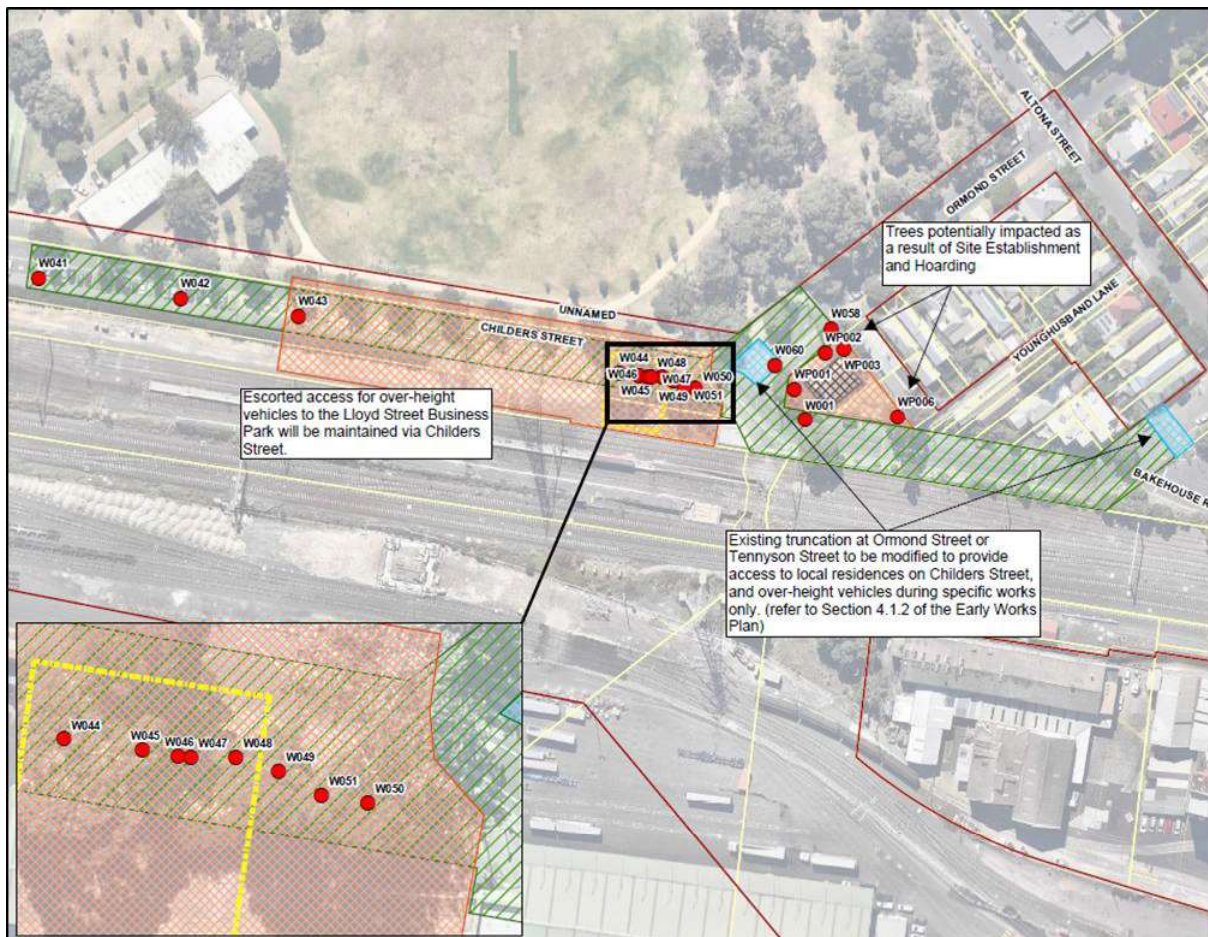


Figure 4: Excerpt from the Site Layout Plan which identifies CYP Early Works within the Western Portal (refer to Appendix A)

Table 2: Summary of CYP Early Works proposed within the Western Portal

Type of Early Works	Applicable to Precinct 2
<i>Utility Service Relocations</i>	
<b>Utility Service Relocations</b>	No
<i>Site Preparation Works</i>	
<b>Monument and Plaque Removal/Relocation</b>	No
<b>Tree Removal</b>	Yes (refer to Section 4.1.1)
<b>Road and Transport Network Changes</b>	Yes (refer to Section 4.1.2)
<b>Shaft Construction</b>	No
<b>Property Demolition Works</b>	Yes (refer to Section 4.1.3)
<b>Associated construction activities</b>	Yes (refer to Section 4.1.4)

#### 4.1.1. TREE REMOVAL

In the context of CYP Early Works scope, site establishment and hoarding, road and network changes, and demolitions will require the removal of up to 18 trees (subject to final design and consideration of the hierarchy identified under Section 4.3.1. of this Plan). Trees WP003 and WP006 have been identified as potentially impacted as a result of their close vicinity to the Site Establishment and Hoarding. These trees are on private property and will be subject to arboriculture assessment prior to and during works. This will include monitoring of tree health and identification of potential risks to safety. Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.1.2. ROAD AND TRANSPORT NETWORK CHANGES

Road and Transport Network Changes within the Western Portal Precinct result from site establishment on Childers Street (including installation of hoarding), and network changes needed to maintain access and traffic flows for local residents, and businesses in the Lloyd Street Business Estate. Proposed changes include:

- Controlled traffic movements on Childers Street to facilitate over-height trucks through the construction site and into the Lloyd Street Business Estate.
- Opening of either Ormond Street OR Tennyson Street to allow for establishment of a controlled access point. The controlled access will provide vehicular connection to Childers Street for local vehicles and allow over-height trucks to access the Lloyd Street Business Estate during specific works which may fully block Childers Street (e.g. unloading pile rig, erecting cranes, potential gas works). Non-over height vehicles accessing Lloyd Street Business Park will do so via Lloyd Street only.
- Installation of a roundabout at the intersection of Childers Street and Ormond Street to facilitate truck movements in and out of the Childers Street site, and keeping construction trucks from local roads. All CYP Early Works truck movements to be in and out of Childers Street via Kensington Road.

As part of addressing impacts associated with Road and Transport Network Changes, CYP is in the process of developing a Western Portal Precinct Transport Management Plan (PTMP) (T2.3.a.i). The PTMP is being developed in consultation with the Traffic and Transport Working Group (TTWG) and other key stakeholders, and will address impacts resulting from the closure of Childers Street, including loss of parking on Childers Street (T3.3.c), connectivity around JJ Holland Park and South Kensington station (T5.4), and general disruption to traffic, pedestrian, and cycle movements including for the local residents and businesses within the Lloyd Street Business Estate. A part of this is proposed to install a round-about at

the intersection of Childers Street and Ormond Street as presented in Figure 5. This is subject to further detailed design development and stakeholder consultation.

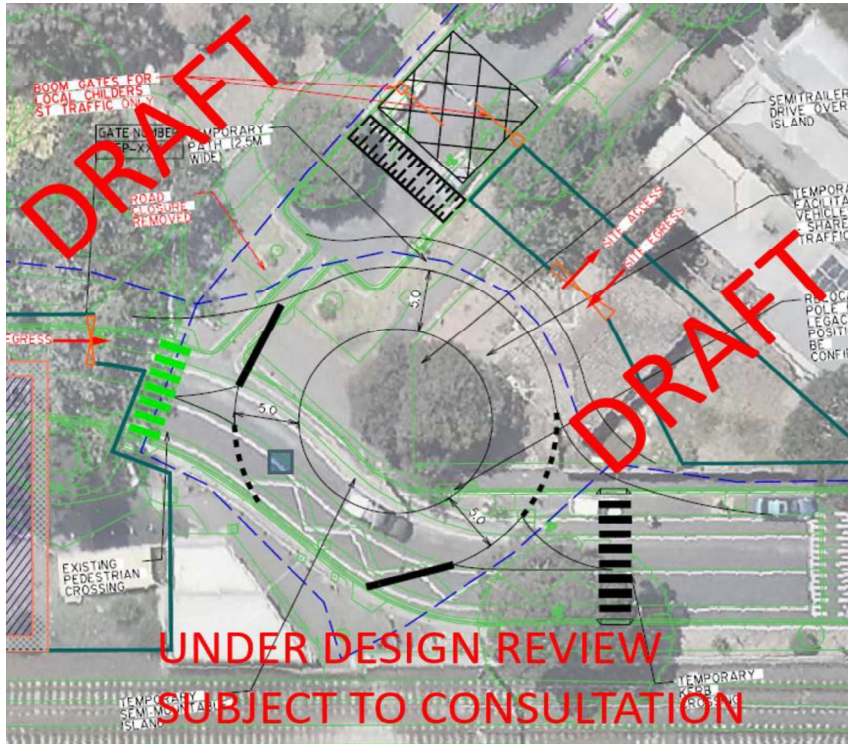


Figure 5: Indicative Roundabout Design at Ormond Street (subject to further Design Review and Consultation)

Proposed Road and Network Changes at Western Portal will be in place for the duration of portal construction, which is 4-5 years. All works will progress in accordance with the applicable EPRs, including with respect to community and business notifications, consultation prior to road and network changes, and maintenance of access for vehicles, pedestrians, and cyclist as required. Precinct Transport Management Plans (PTMP) and Transport Management Implementation Plans (TMIP) will be developed to manage changes in Western Portal Precinct, and will be developed in accordance with the relevant EPRs (refer Section 5).

Indicative location of Road and Network Changes are provided in Appendix A.

#### 4.1.3. PROPERTY DEMOLITION WORKS

Demolition works within the Western Portal Precinct will consist of the demolition of a residential building at 135 Ormond Street, Kensington.

#### 4.1.4. ASSOCIATED CONSTRUCTION ACTIVITIES

Associated construction activities undertaken within the Western Portal include:

- Minor road works on Childers Street, Ormond Street, and Tennyson Street (including construction and tie in of the roundabout, impacts to kerb and channel, carriageway, footpaths, stormwater / drainage pipes and pits, service poles etc.) associated with site establishment and demolition works. Pending the outcome of the Western Portal PTMP, there may be the potential for minor modifications to road kerbs on Kensington Road and Derby Street. This will be subject to design and consultation as outlined in Section 4.1.2.



- Maintenance of pedestrian access along JJ Holland Park, Ormond Street and Childers Street (east end) to South Kensington Station. Installation of pedestrian crossing at the east of the entrance to South Kensington Station to facilitate pedestrians crossing from Ormond Street when the existing pedestrian crossing cannot be used. No changes to cycle access to and through JJ Holland Park.
- Ground and associated civil works for guide wall installation and sheet piling in preparation for shaft construction. Sheet piling is required to support the existing rail formation.
- Parking changes along the eastern extent of Childers Street and Ormond Street.
- Installation of hoarding around the construction area on Childers Street, and the demolition site at 135 Ormond Street.
- Establishment of site facilities, including offices, laydown, water treatment plant, and associated minor earthworks required for site preparation along Childers Street and the demolition site at 135 Ormond Street. Operation of any plant or equipment required for tunnelling and shaft construction is considered a Main Works activity.

The established work sites, and associated plant and equipment, will be operated and managed in accordance with the EPRs and relevant regulations and guidelines.

#### 4.1.5. APPLICABLE EPRS

EPRs applicable to works within the Western Portal Precinct include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, C4, CH1, CH2, CH3, CH4, CH6, CH8, CH9, CH11, CH23, FF1, FF2, FF3, GHG1, GHG2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV13, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

#### 4.1.6. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.1.7. TIMING OF WORKS

CYP Early Works scope at Western Portal will commence following the approval of this Early Works Plan, with site establishment and demolitions works taking six to nine months to complete. Subsequent works at Western Portal will be undertaken as per the approved Development Plan. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.2. INTAKE SUB-STATION (PRECINCT 3)

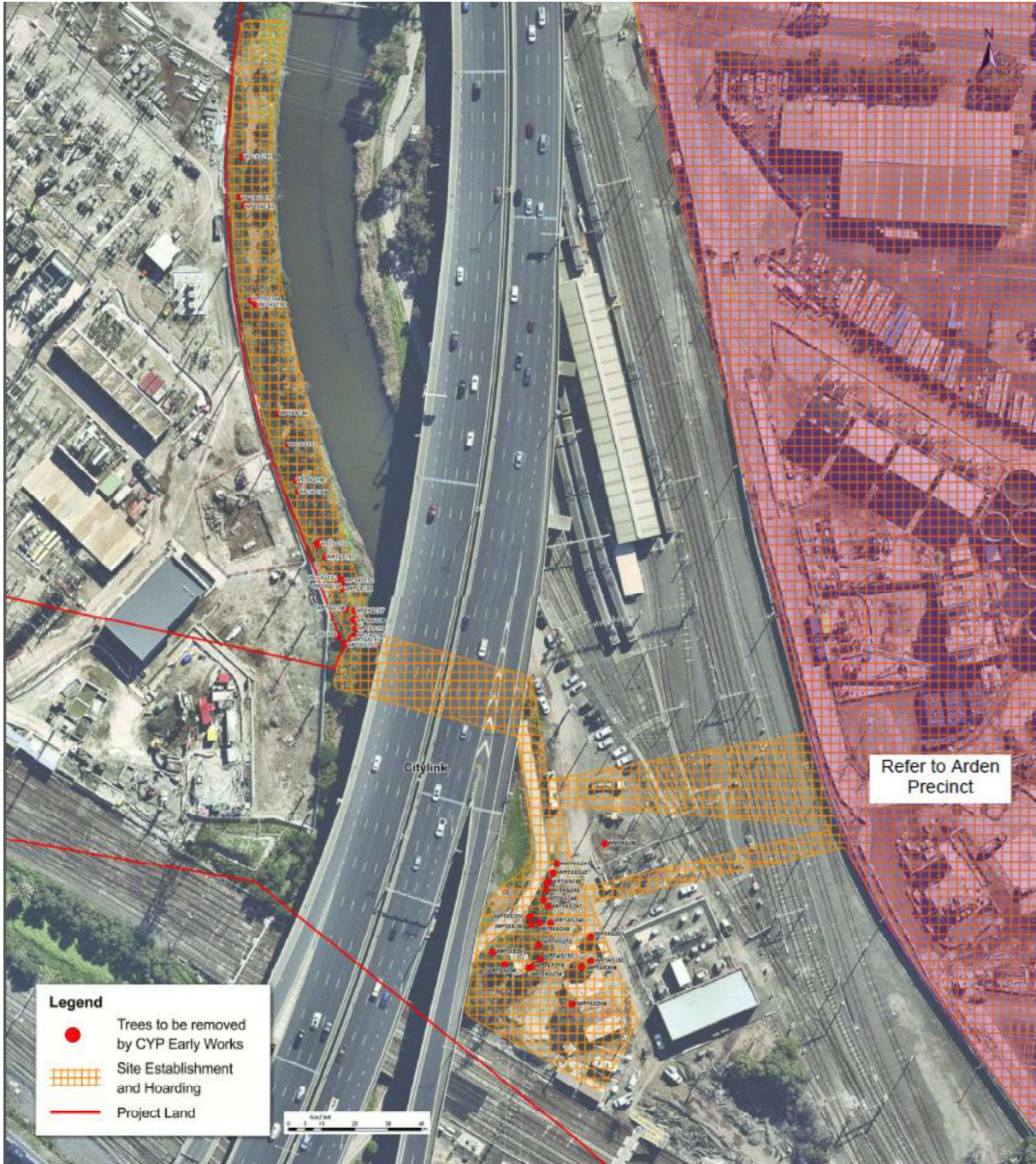


Figure 6: Excerpt from the Site Layout Plan which identifies CYP Early Works within the Intake Substation (refer to Appendix A)

Table 3: Summary of CYP Early Works associated with the Intake Substation

Type of Early Works	Applicable to Precinct 3
<b>Utility Service Relocations</b>	
Utility Service Relocation	Yes (refer to Section 4.2.1)
<b>Site Preparation Works</b>	
Monument and Plaque Removal/Relocation	No
Tree Removal	Yes (refer to Section 4.2.2)
Road and Transport Network Changes	No
Shaft Construction	No
Property Demolition Works	Yes (refer to Section 4.2.4)
Associated construction activities	Yes (refer to Section 4.2.5)

#### 4.2.1. UTILITY SERVICE RELOCATIONS

In the context of the CYP D&C Early Works, the scope of works will include protection and potential relocation of existing rail utilities within the site boundary and a new cable route to be constructed to connect the Intake Substation with the existing Ausnet power supply. This will involve cable routing and directional drilling under Moonee Ponds Creek and under the existing train tracks. The final design associated with the new high voltage cable route is subject to further detailed design development in consultation with Melbourne Water, Melbourne City Council and the Victorian Planning Authority.

#### 4.2.2. TREE REMOVAL

Tree removal will be required as a result of the CYP D&C Early Works activities and will result in up to 41 trees being removed as a result of site establishment and related preparation activities, as well as cable route installation along the west bank of Moonee Ponds Creek. Four additional trees have already been removed by MTM, these include WPTAS240, WPTAS259, WPTAS260 and WPTAS261. Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.2.3. ROAD AND TRANSPORT NETWORK CHANGES

There will be no road and transport network changes as part of the CYP D&C Early Works activities for the Intake Substation. The existing access track will be used for construction-related vehicles.

Moonee Ponds Creek Trail is located adjacent to the Intake Substation. Cyclists may be temporarily diverted along moonee Ponds Creek Trail during the construction phase, however CYP will seek to minimise any impacts to the existing trail and will reinstate access at the completion of works.

#### 4.2.4. PROPERTY DEMOLITION WORKS

The existing disused rail asset building will be demolished as part of the CYP D&C Early Works. The Intake Substation will be located at the site of the former disused building.

#### 4.2.5. ASSOCIATED CONSTRUCTION ACTIVITIES

CYP D&C's Early Works construction activities to be undertaken within the precinct will include:

- Site preparation and clearing (including tree removals), to include the installation of hoarding and temporary fence around the construction area
- Ground excavation and grading
- Piling for ground support, capping beam and crushed rock piling base for proposed Intake Substation structure
- Footprint preparation for proposed Intake Substation structure.

#### 4.2.6. APPLICABLE EPRS

EPRs applicable to works for the Intake Substation include: AE1, AE2, AE5, AH1, AR1, AR2, AR3, AR4, CH1, CH12, FF1, FF2, FF3, LU1, LU4, LV1, LV2, SC8, SW1 and SW2.

#### 4.2.7. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.2.8. TIMING OF WORKS

Early Works scope for the Intake Substation will commence following the approval of this Early Works Plan (approximately December 2019), with site establishment and associated construction activities being undertaken until approximately December 2020. Subsequent works for the Intake Substation will be undertaken as per the approved Development Plan. Notification is to be sent to applicable stakeholders in advance of works commencing.

### 4.3. ARDEN PRECINCT (PRECINCT 4)

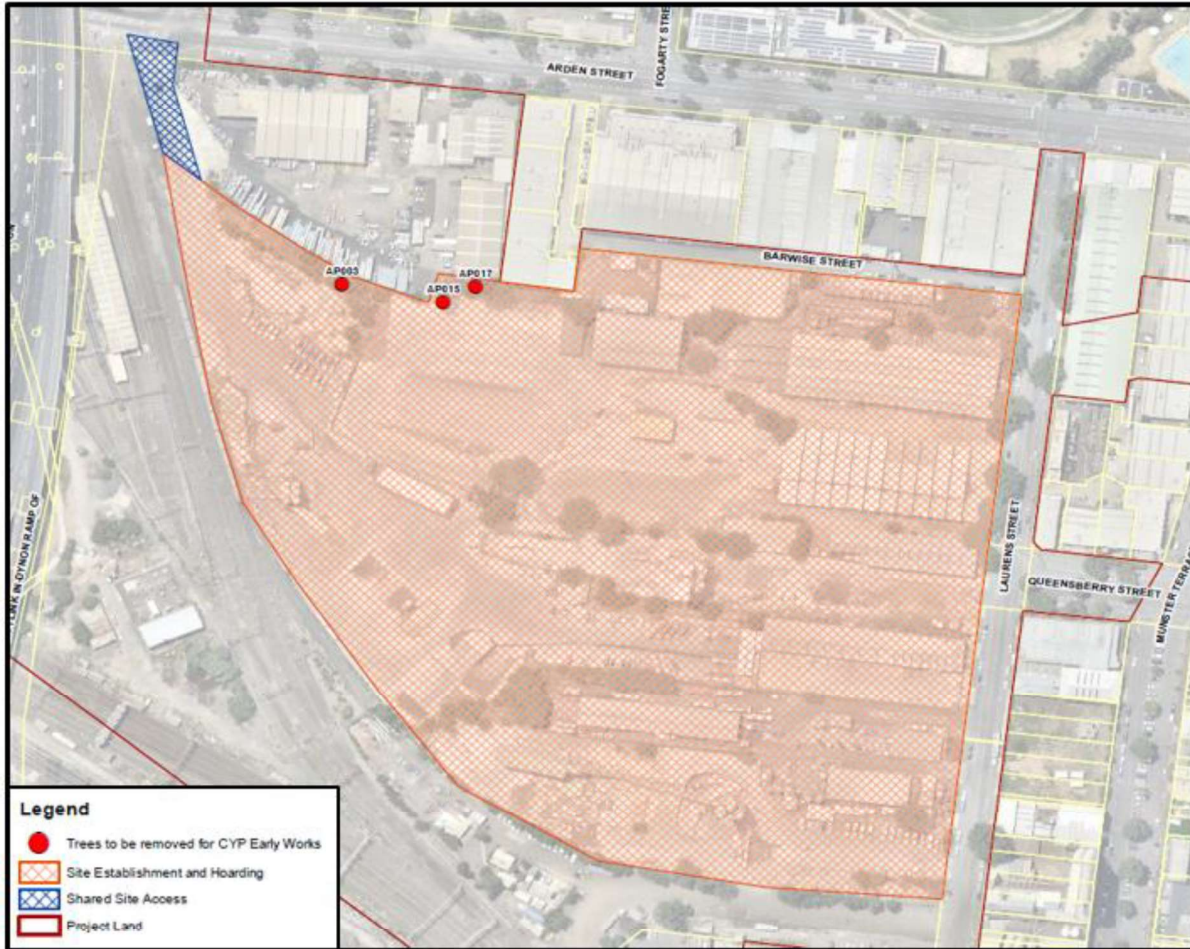


Figure 7: Excerpt from the Site Layout Plan which identifies CYP Early Works within the Arden Precinct (refer Appendix A)

Table 4: Summary of CYP Early Works proposed within the Arden Precinct

Type of Early Works	Applicable to Precinct 4
<i>Utility Service Relocations</i>	
<b>Utility Relocation Works</b>	No
<i>Site Preparation Works</i>	
<b>Monument and Plaque Removal/Relocation</b>	No
<b>Tree Removal</b>	Yes (refer to Section 4.3.1)
<b>Road and Transport Network Changes</b>	No
<b>Shaft Construction</b>	No
<b>Property Demolition Works</b>	No
<b>Associated construction activities</b>	Yes (refer to Section 4.3.2)

#### 4.3.1. TREE REMOVAL

In the context of CYP Early Works scope, site establishment and hoarding will result in up to 3 trees being removed in Arden Precinct (subject to final design and consideration of the hierarchy identified under Section 4.2.1. of this Plan). Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.3.2. ASSOCIATED CONSTRUCTION ACTIVITIES

In the context of CYP Early Works scope, construction activities will include:

- Minor road works (including impacts to kerb and channel) to accommodate improved site access from Arden Street (and associated signalisation) and Laurens Street.
- Installation of hoarding along the construction area fronting on to Lauren Street and Barwise Street, hoarding along a portion of the southern extent of the site, and hoarding continuing west from Barwise Street to the western extent of the site. Other areas of existing fencing will be maintained
- Establishment of site facilities, including offices, laydown, and associated minor earthworks. The Arden site will be established to manage TBM tunnelling operations in addition to station construction. As such, the site will receive and manage tunnelling spoil and as such will require plant and equipment such as a batch plant and separation plants, compressor station, water treatment plant, muck bins and muck loading facilities. These site facilities are for the purposes of tunnelling, and will therefore not commence operation until the beginning of the Main Works, after the approval of the Arden Development Plan.

The established work sites, and associated plant and equipment, will be operated and managed in accordance with the EPRs and relevant regulations and guidelines.

#### 4.3.3. APPLICABLE EPRS

EPRs applicable to works within the Arden Precinct include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, C4, CH1, CH2, CH3, CH4, CH5, CH6, CH8, CH9, CH23, FF1, FF2, FF3, GHG1, GHG2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV13, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

#### 4.3.4. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.3.5. TIMING OF WORKS

CYP Early Works scope at Arden will commence following the approval of this Early Works Plan. Subsequent works at Arden will be undertaken as per the approved Development Plan. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.4. PARKVILLE PRECINCT (PRECINCT 5)

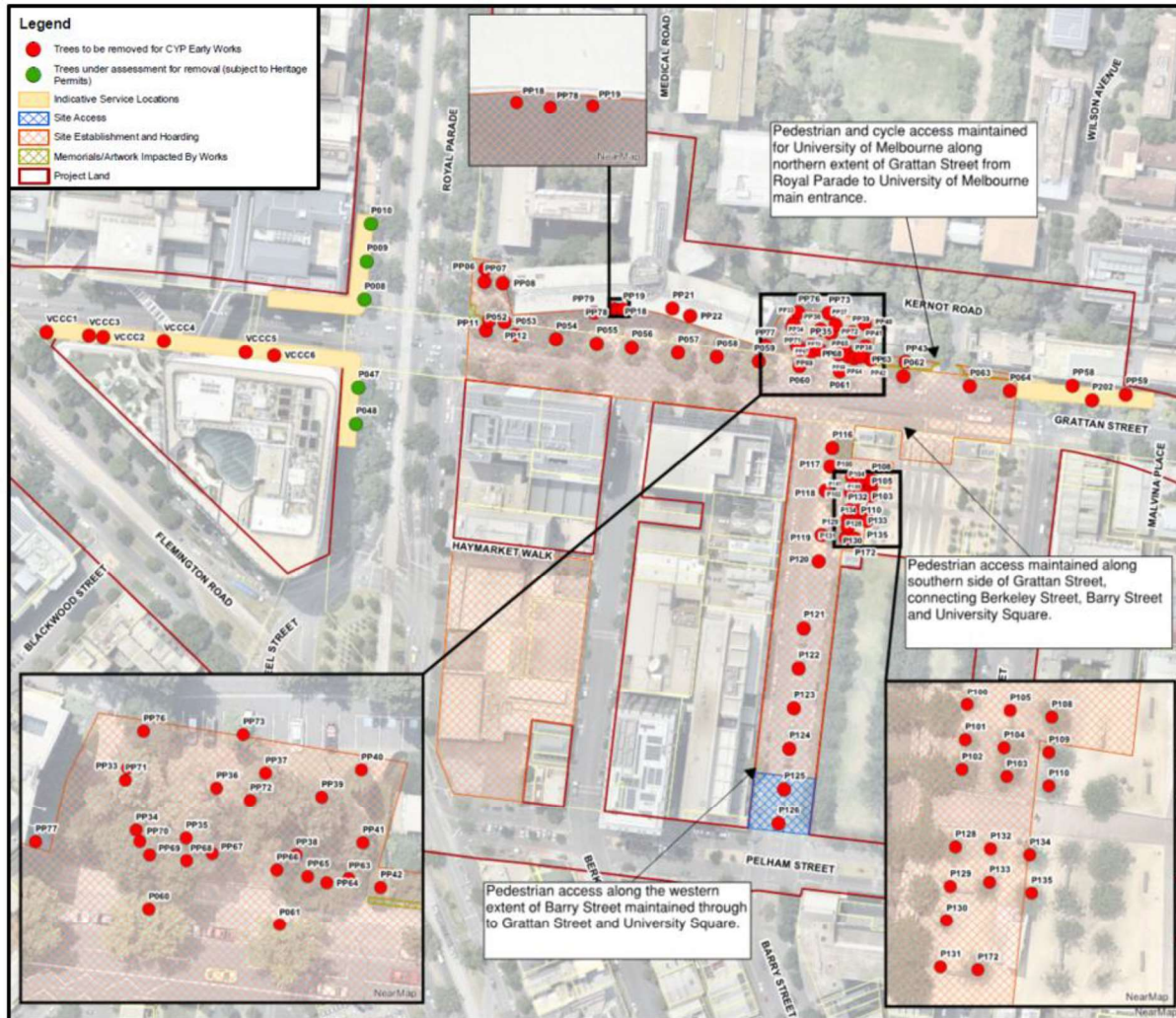


Figure 8: Excerpt from the Site Layout Plan which identifies CYP Early Works within the Parkville Precinct (refer to Appendix A)

Table 5: Summary of CYP Early Works proposed within the Parkville Precinct

Type of Early Works	Applicable to Precinct 5
<b>Utility Service Relocations</b>	
Utility Service Relocations	Yes (refer to Section 4.4.1)
<b>Site Preparation Works</b>	
Monument and Plaque Removal/Relocation	Yes (refer to Section 4.4.2)
Tree Removal	Yes (refer to Section 4.4.3)
Road and Transport Network Changes	Yes (refer to Section 4.4.4)
Shaft Construction	No

<b>Property Demolition Works</b>	No
<b>Associated construction activities</b>	Yes (refer to Section 4.4.5)

#### 4.4.1. UTILITY SERVICE RELOCATIONS

In the context of the CYP Early Works scope, utility relocations at Parkville Precinct will include:

- Services along the corner of Royal Parade and Grattan Street (including water, stormwater, sewer, gas, electrical and telecommunications as well as residual to works already completed by the Early Works Managing Contractor)
- Services along the north-eastern extent of Grattan Street, opposite Leicester Street (including water, stormwater, sewer, gas and electrical as well as residual to works already completed by the Early Works Managing Contractor)

Abandoned services will also be removed where necessary within the hoarded construction areas on Grattan Street and Barry Street.

#### 4.4.2. MONUMENT AND PLAQUE REMOVAL / RELOCATION

A number of monuments are proposed for removal and relocation within the University of Melbourne land at Parkville Precinct. Table 6 identifies the elements that are impacted as a consequence of works, which includes portions of the heritage-listed pillar and fence. Portion of the existing bluestone boundary wall (not of State heritage significance) will also be impacted, with the storage and relocation of relevant material to be agreed with the University of Melbourne. Furthermore, the building canopy at the Peter Doherty Institute will be removed as part of the CYP Early Works scope.

Table 6: Summary of monument removal within Parkville Precinct

Monument	Summary of Impacts	Additional Approval Requirements
<b>Main Entrance Gates (Gate 6*), Pillars and Fence (portion thereof)</b> <b>*referred to as Gate 10 by University of Melbourne</b>	Temporary removal and storage, and restoration (as required).	Heritage Permit under the Heritage Act 2017 and compliance with applicable conditions Compliance with applicable EPRs Approval from landowner and/or asset manager
<b>Bluestone pillar and cast-iron fence at the corner of Grattan Street and Royal Parade</b>	Temporary removal and storage.	Compliance with applicable EPR Approval from landowner and/or asset manager

#### 4.4.3. TREE REMOVAL

In the context of CYP Early Works scope, utility relocation, site establishment, and road and networks changes, will require the removal of up to 91 trees. Tree removal includes 4 trees within Royal Parade which are subject to the issuing of a heritage permit and compliance with subsequent conditions. Outside of Royal Parade, tree impacts include 55 on Grattan Street / within the University of Melbourne, 11 on Barry Street, and 18 on University Square. All tree removals must be considered in accordance with the hierarchy identified under Section 4.3.1 of this Plan.

Details of tree removals are provided in Appendix A as figures and tree lists.



#### 4.4.4. ROAD TRANSPORT AND NETWORK CHANGES

In the context of CYP Early Works, Road and Transport Network Changes within the Parkville Precinct will include:

- Temporary closure of Grattan Street between Royal Parade and Leicester Street for the duration of station construction.
- Restricted access to Barry Street between Pelham Street and Grattan Street to allow for site establishment.
- The northern end of Berkeley Street will be designated no through road onto Grattan Street.

The above road Transport and Network Changes will be in place for the duration of station construction, extending to 2022, noting that a permanent closure of Barry Street falls within the future City of Melbourne University Square Master Plan. All works will progress in accordance with the applicable EPRs, including with respect to community and business notifications, consultation prior to road and network changes, and maintenance of access for vehicles, pedestrians, and cyclist as required. Precinct Transport Management Plans (PTMP) and Transport Management Implementation Plans (TMIP) will be developed to manage changes in Western Portal Precinct, and will be developed in accordance with the relevant EPRs (refer Section 5).

#### 4.4.5. ASSOCIATED CONSTRUCTION ACTIVITIES

Associated construction activities undertaken within the Parkville Precinct include:

- Road works and removal of street furniture (including removal of kerb and channel, pavement, carriageway, footpaths, stormwater pipes and pits, service poles, street furniture etc.) associated with site establishment works on Grattan Street and Barry Street
- Changes to pedestrian and cycle access along Grattan Street and Barry Street, and into the University of Melbourne. Pedestrian access will be maintained along the northern and southern side of Grattan Street, providing connection from Barry Street to University Square. Pedestrian and cycle access will be maintained for the University of Melbourne along the northern side of Grattan Street. Pedestrian access will be maintained along the western edge of Barry Street throughout the works.
- Removal of parking within the hoarded sections of Grattan Street and Barry Street
- Establishment of site facilities within hoarded portions of Grattan Street and Barry Street, including site offices, laydown, water treatment plant, and a truck holding area. Operation of any plant or equipment required for tunnelling and shaft construction is considered a Main Works activity.
- Establishment of site facilities including offices, laydown and a truck holding area at the City Ford site (corner of Pelham Street and Elizabeth Street).
- Installation of hoarding of construction areas on Grattan Street, Barry Street, a small portion of University Square, and the City Ford site (corner of Pelham Street and Elizabeth Street). Hoarding of the City Ford site will be undertaken following completion of demolition works undertaken by the Early Works Managing Contractor.

#### 4.4.6. APPLICABLE EPRS

EPRs applicable to works within the Parkville Precinct include: , EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, B4, B5, C4, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9, CH23, EMI1, EMI2, FF1, FF2, FF3, GHG1, GHG2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV12, NV13, NV14 (unlikely), NV15, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

#### 4.4.7. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.4.8. TIMING OF WORKS

CYP Early Works scope at Parkville will commence following the approval of this Early Works Plan. The Main Works scope, would continue on from this once the respective Development Plan is approved. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.5. CBD NORTH PRECINCT (PRECINCT 6)

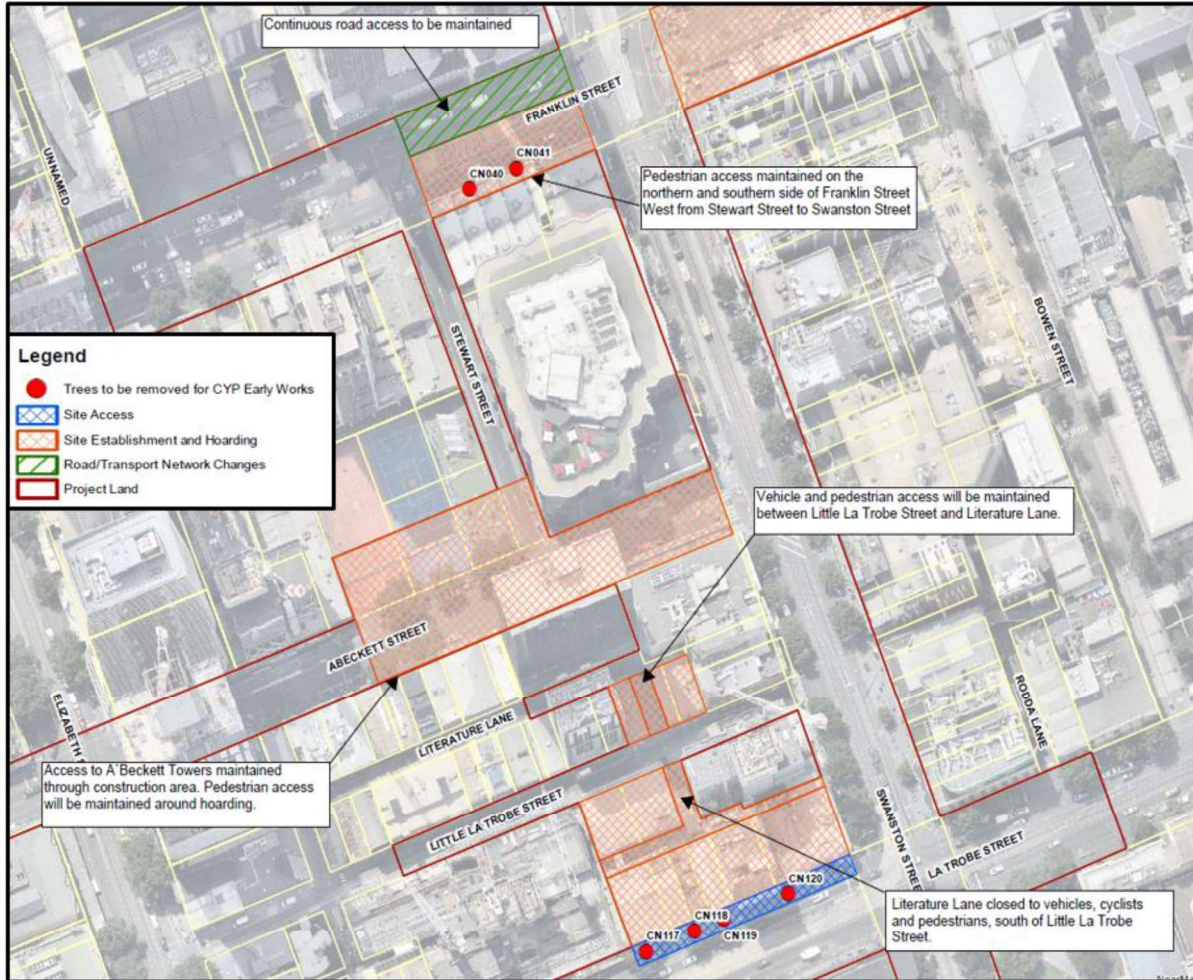


Figure 9: Excerpt from the Site Layout Plan which identifies CYP Early Works within the CBD North Precinct (refer Appendix A)

Table 7: Summary of CYP Early Works proposed within the CBD North Precinct

Type of Early Works	Applicable to Precinct 6
<b>Utility Service Relocations</b>	
<b>Utility Relocation Works</b>	No
<b>Site Preparation Works</b>	
<b>Monument and Plaque Removal/Relocation</b>	No
<b>Tree Removal</b>	Yes (refer to Section 4.5.1)
<b>Road and Transport Network Changes</b>	Yes (refer to Section 4.5.2)
<b>Shaft Construction</b>	No
<b>Property Demolition Works</b>	No
<b>Associated construction activities</b>	Yes (refer to Section 4.5.3)

#### 4.5.1. TREE REMOVAL

In the context of CYP Early Works scope, site establishment and access requirements, and road and network changes, require the removal of up to six trees in CBD North Precinct (subject to final design and consideration of the hierarchy identified under Section 4.3.1. of this Plan). Tree removal includes two trees on Franklin Street West required for site establishment, and four trees on La Trobe Street required to establish site access.

Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.5.2. ROAD AND TRANSPORT NETWORK CHANGES

In the context of CYP Early Works, Road and Transport Network Changes within CBD North Precinct will include:

- Alterations to access along Franklin Street West as a result of CYP site establishment. A construction area will be established around the future shaft location on the southern side of Franklin Street West east of Stewart Street
- Alteration / Realignment of Franklin Street West.
- Vehicular access between Little La Trobe Street and Literature Lane will be maintained throughout Early Works.

The CBD North Precinct Transport Management Plan (PTMP) will provide the framework and localised precinct specific measures to manage potential traffic and transport impacts across the Early Works, including those issues relating to road network management. Relevant stakeholders have been, and will continue to be, consulted when developing traffic management measures, including the TTWG, road and public transport authorities and councils.

CYP will be handed over sites previously established at Franklin Street and A'Beckett Street from the Early Works Managing Contractor. Closure of these roads was initially conducted by the Early Works Managing Contractor as Preparatory Works.

Appropriate way-finding solutions are to be implemented in accordance with the EPRs (refer to Section 5).

### 4.5.3. ASSOCIATED CONSTRUCTION ACTIVITIES

In the context of CYP Early Works scope, associated construction activities within the CBD North Precinct areas will include:

- Minor road works (including impacts to kerb and channel, stormwater pipes and pits, etc) on Franklin Street West and the corner of Swanston Street and La Trobe Street)
- Changes to cycle access on Franklin Street West to the northern side of the street only. Pedestrian access will be maintained on the northern and southern side.
- Installation of hoarding for site establishment on Franklin Street West
- Impacts to parking on Franklin Street West.

CYP will be handed over sites previously established at Franklin Street and A'Beckett Street by the Early Works Managing Contractor, installing or maintaining hoarding as required and managing site access. Residential vehicular access to A'Beckett Towers will be maintained. Pedestrian access between Literature Lane and Little La Trobe will be maintained. Pedestrian access around the shafts at Franklin Street and A'Beckett Street will also be maintained.

### 4.5.4. APPLICABLE EPRS

EPRs applicable to works within the CBD North Precinct include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, C4, CH1, CH2, CH3, CH4, CH6, CH7, CH8, CH9, CH10, CH23, EMI1, EMI2, FF1, FF2, FF3, GHG1, GHG2, GM2, GM4, GM5, GM6, GW2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV12, NV13, NV15, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

### 4.5.5. RESPONSE TO UDS

Refer to Section 5.2.

### 4.5.6. TIMING OF WORKS

Early Works scope at CBD North will commence following the approval of this Early Works Plan. The Main Works scope, would continue on from this, once the respective Development Plan is approved. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.6. CBD SOUTH PRECINCT (PRECINCT 7)

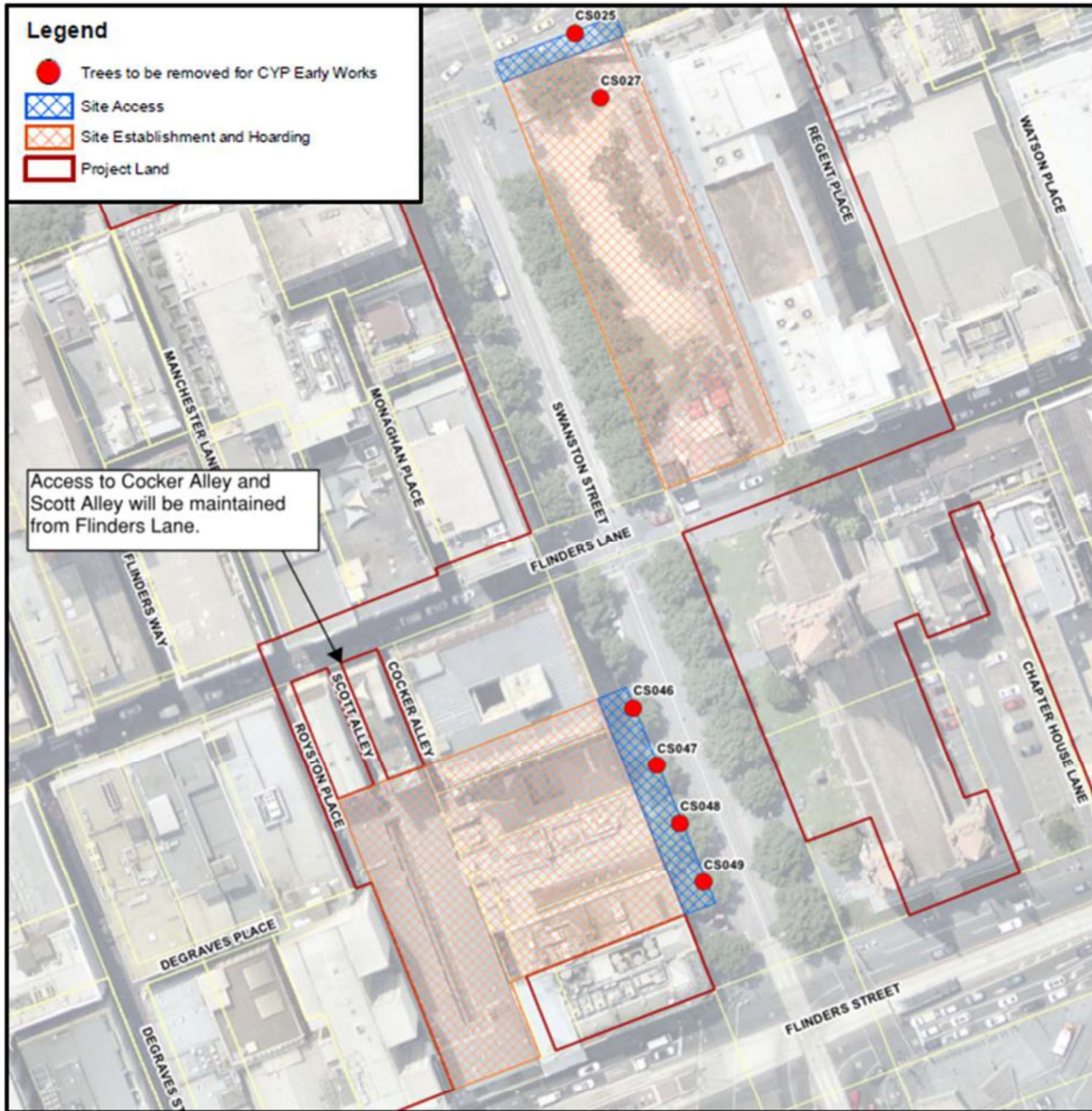


Figure 10: Excerpt from the Site Layout Plan which identifies CYP Early Works within the CBD South Precinct

Table 8: Summary of CYP Early Works proposed within the CBD South Precinct

Type of Early Works	Applicable to Precinct 7
<b>Utility Service Relocations</b>	
Utility Relocation Works	No
<b>Site Preparation Works</b>	
Monument and Plaque Removal/Relocation	No
Tree Removal	Yes (refer to Section 4.6.1)
Road and Transport Network Changes	No
Shaft Construction	No
Property Demolition Works	No
Associated construction activities	Yes (refer to Section 4.6.2)

#### 4.6.1. TREE REMOVAL

Tree removal will be required as a result of CYP Early Works activities and will result in up to 6 trees being removed (subject to final design and consideration of the hierarchy identified under Section 4.3.1 of this Plan). This includes four trees impacted by establishing site access along Flinders Street and Swanston Street, and two trees impacted by establishing access into the City Square site. Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.6.2. ASSOCIATED CONSTRUCTION ACTIVITIES

CYP Early Works undertaken within the CBD South Precinct include:

- Minor road works (including impacts to kerb and channel) on Swanston Street and surrounding City Square.

CYP will be handed over sites previously established at City Square, and the Swanston Street demolition sites by the Early Works Managing Contractor. CYP will maintain or install hoarding as necessary at these sites, and providing ongoing facilitation of safe pedestrian and cycle movements.

#### 4.6.3. APPLICABLE EPRS

EPRs applicable to works within the CBD South Precinct include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, C4, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9, CH10, CH23, FF1, FF2, FF3, GHG1, GHG2, GM2, GM4, GM5, GM6, GW2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV13, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

#### 4.6.4. RESPONSE TO UDS

Refer to Section 5.2.

### 4.6.5. TIMING OF WORKS

CYP Early Works scope at CBD South will commence following the approval of this Early Works Plan. Subsequent works at CBD South will be undertaken as per the approved Development Plan. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.7. DOMAIN PRECINCT (PRECINCT 8)

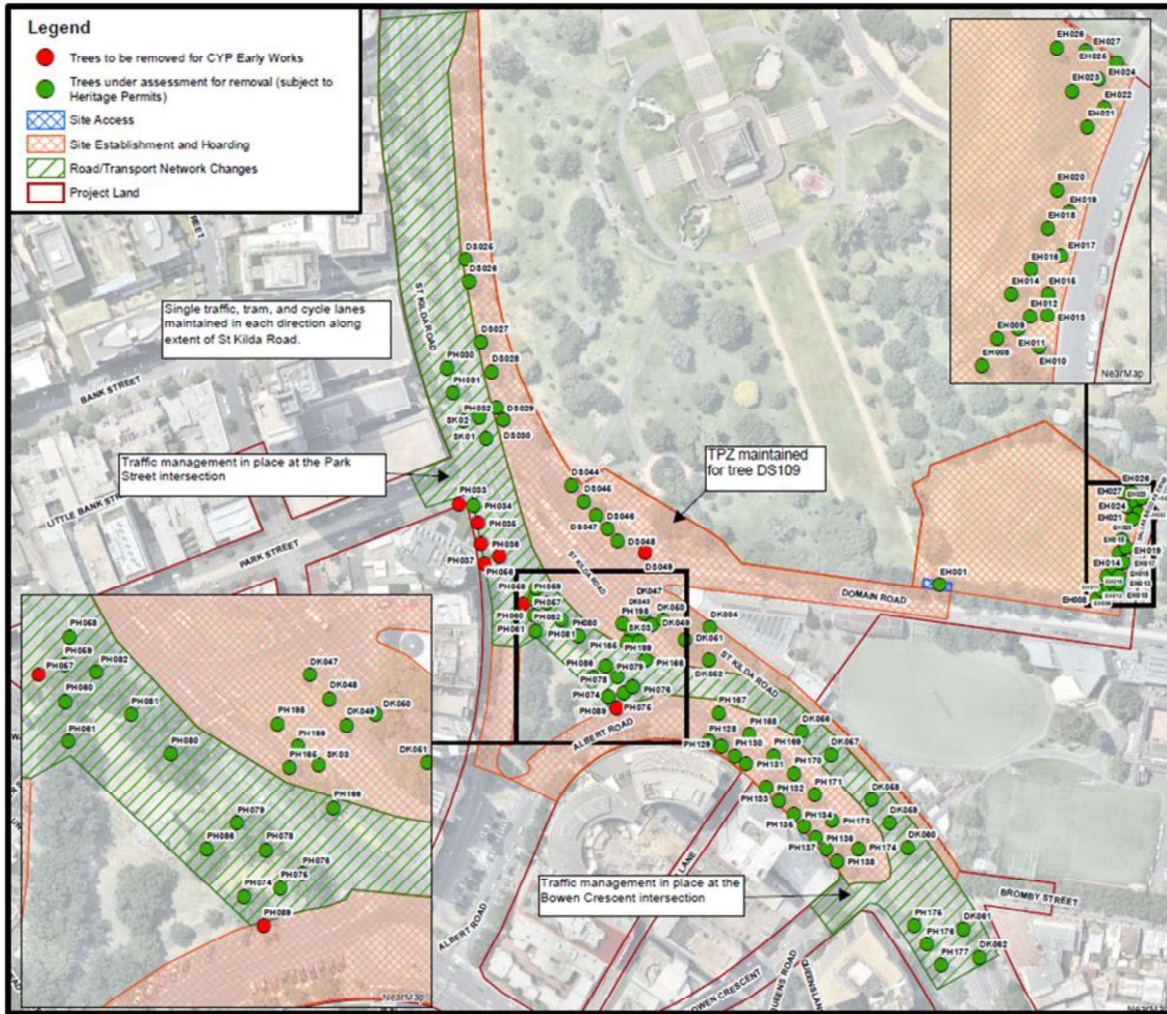


Figure 11: Excerpt from the Site Layout Plan which identifies Early Works within the Domain Precinct



Table 9: Summary of Early Works proposed within the Domain Precinct

Type of Early Works	Applicable to Precinct 8
<b>Utility Service Relocations</b>	
Utility Service Relocations	No
<b>Site Preparation Works</b>	
Monument and Plaque Removal/Relocation	No
Tree Removal	Yes (refer to Section 4.7.1)
Road and Transport Network Changes	Yes (refer to Section 4.7.2)
Shaft Construction	No
Property Demolition Works	No
Associated construction activities	Yes (refer to Section 4.7.3)

#### 4.7.1. TREE REMOVAL

Tree removal at Domain Precinct will be required as a result of CYP Early Works activities, requiring the removal of up to 99 trees. The majority Early Works tree removal is proposed for four Victorian Heritage Register sites, including, 1 tree within the Shine of Remembrance, 56 trees within St Kilda Road, 19 within Domain Parklands, and 13 within Albert Reserve (South African Soldiers Memorial). Removal of these trees are also subject to the issuing of respective heritage permits, and compliance with subsequent conditions. All tree removals must be conditioned in accordance with the hierarchy identified under Section 4.3.1 of this Plan.

Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.7.2. ROAD AND TRANSPORT NETWORK CHANGES

CYP’s Early Works Road and Transport Network Changes within the Domain Precinct include the temporary alterations to the road and tram network along St Kilda Road, from Government House Drive to Toorak Road, noting that the works at Government House will be undertaken by the Managing Contractor under their Early Works Plan, but will be operational as part of CYP’s Early Works Road and Network Changes. During these works a single lane of traffic, tram, and cycle in each direction will be maintained. These works involve slewing the road and tram to the north and south, impacting on the northern portion of Albert Reserve. Other impacts include:

- Removal of tram stops at Bowen Crescent and Domain Interchange. These are replaced by a temporary stop immediately north of Park Street.
- Designation of Bowen Lane as a no through road onto St Kilda Road
- Long term alteration to traffic movements at the intersections between St Kilda Road and Dorcas Street, Park Street, Bowen Crescent and Albert Road
- Maintaining the closure of the western portion of Domain Road, as previously established by the Early Works Managing Contractor.
- Maintenance of vehicular access to all properties and buildings.

Indicative locations of road and transport network changes are shown on the figure in Appendix A. Details on transport network changes will be captured within the PTMP’s and TMIP’s for the Domain Precinct. The above Road Transport and Network Changes will be in place for the duration of station construction, extending to 2022. All works will progress in accordance with the applicable EPRs, including with respect to community and business notifications, consultation prior to road and network changes, and maintenance of

access for vehicles, pedestrians, and cyclist as required. Precinct Transport Management Plans (PTMP) and Transport Management Implementation Plans (TMIP) will be developed to manage changes in Domain Precinct, and will be developed in accordance with the relevant EPRs (refer Section 5).

### 4.7.3. ASSOCIATED CONSTRUCTION ACTIVITIES

CYP's Early Works construction activities undertaken within the Domain Precinct include a range of activities within the site established on St Kilda Road, and within Edmund Herring Oval.

- Minor road works on St Kilda Road on the corner of Dorcas Street, Park Street, Albert Road and Bowen Crescent to allow for changes to traffic movement
- Associated civil infrastructure works to construct the temporary road and tram re-alignment. Changes to parking, pedestrian and cycle access along St Kilda Road and Albert Road
- Establishment of site facilities at Edmund Herring Oval and within Domain Precinct, including offices, laydown and associated minor earthworks. The Edmund Herring Oval site will be established to take and manage tunnelling spoil and as such will require plant and equipment such as a batch plant and slurry treatment plants, compressor station, water treatment plant, muck bins and muck loading shed. These site facilities are for the purpose of tunnelling, and will therefore not commence operation until the beginning of the Main Works after the approval of the Domain Development Plan.
- Establishment of site hoarding along the eastern portion of St Kilda Road between Dorcas Street and Domain Road and down to Bromby Street. Establishment of fencing and hoarding on the northern portion of Albert Road and continuing down St Kilda Road to Bowen Crescent. Edmund Herring Oval will also be fenced / hoarded, with it extending along the northern edge of the site adjacent to the existing retaining wall.

It should be noted that spoil removal due to tunnelling is not itself an Early Works activity, and as such operation of the above-mentioned plant would not be until 2019 once the respective Development Plan is approved. However, spoil removal from tram and road construction works associated with Early Works will be undertaken. Any plant and equipment operating on site will be managed in accordance with the EPRs and relevant regulations and guidelines.

The established work sites, and associated plant and equipment, will be operated and managed in accordance with the EPRs and relevant regulations and guidelines. The site compound and hoarding will be designed and located to minimise impacts to adjacent businesses and residents, taking into consideration the EPRs and UDS.

### 4.7.4. APPLICABLE EPRS

EPRs applicable to works within the Domain Precinct include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, AR5, B2, B3, B4, C4, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9, CH20, CH23, FF1, FF2, FF3, GHG1, GHG2, GM2, GM4, GM5, GM6, GW2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV13, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.C6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

### 4.7.5. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.7.6. TIMING OF WORKS

Early Works scope at Domain will commence following the approval of this Early Works Plan. Subsequent works at Domain Precinct will continue on from these Early Works, once the respective Development Plan is approved. Notifications are to be sent to applicable stakeholders in advance of works commencing.

## 4.8. EASTERN PRECINCT (PRECINCT 9)

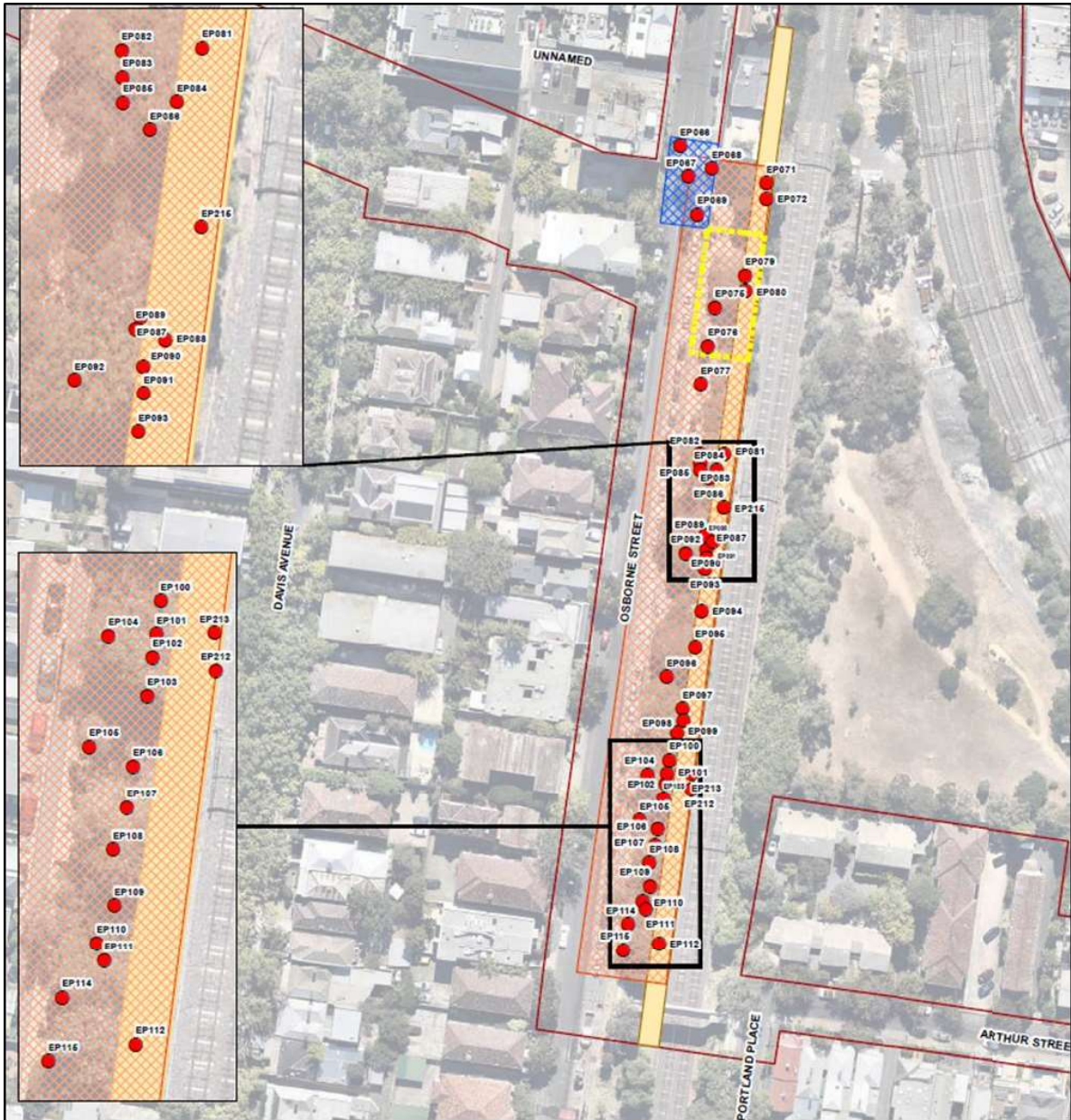


Figure 12: Excerpt from the Site Layout Plan which identifies CYP Early Works within the Eastern Portal Precinct

Table 10: Summary of CYP Early Works proposed within the Eastern Portal Precinct

Type of Early Works	Applicable to Precinct 9
<b>Utility Service Relocations</b>	
<b>Utility Service Relocation</b>	Yes (refer to Section 4.8.1)
<b>Site Preparation Works</b>	
<b>Monument and Plaque Removal/Relocation</b>	No
<b>Tree Removal</b>	Yes (refer to Section 4.8.2)
<b>Road and Transport Network Changes</b>	Yes (refer to Section 4.8.3)
<b>Shaft Construction</b>	No
<b>Property Demolition Works</b>	No
<b>Associated construction activities</b>	Yes (refer to Section 4.8.4)

#### 4.8.1. UTILITY SERVICE RELOCATIONS

In the context of the CYP Early Works scope, utility relocations at the Eastern Portal will include a relocation of existing communication, power and signalling services within the rail corridor, shifting them further to the east, away from the future shaft.

#### 4.8.2. TREE REMOVAL

Tree removal will be required as a result of CYP Early Works activities and will result in up to 48 trees being removed as a result of site establishment and traffic changes along the western edge of Osborne Street (subject to final design and consideration of the hierarchy identified under Section 4.3.1 of this Plan). Details of tree removals are provided in Appendix A as figures and tree lists.

#### 4.8.3. ROAD AND TRANSPORT NETWORK CHANGES

Road and Transport Network Changes at Eastern Portal along Osborne Street will consist of maintaining local traffic whilst developing the site and providing a work area with site access. There will be site occupation of one traffic lane on Osborne Road, resulting in the existing traffic network dropping to one lane of traffic north-bound. The Traffic Management Implementation Plan (TMIP) will be developed and implemented in consultation in with the relevant road authority and City of Stonington. The indicative location of works on Osborne Street are shown on in Appendix A.

#### 4.8.4. ASSOCIATED CONSTRUCTION ACTIVITIES

CYP's Early Works construction activities to be undertaken within the precinct will include:

- Minor roadworks (including impacts to kerb and channel) to allow for site access
- Parking, pedestrian and cycle changes along Osborne Street
- Installation of hoarding around the construction area on Osborne Street
- Construction of a rail-side temporary barrier fence
- Ground and associated civil works for guide wall installation in preparation for shaft construction.

- Occupation of one traffic lane on Osborne Road. The existing traffic network will drop to one lane of traffic north-bound.

#### 4.8.5. APPLICABLE EPRS

EPRs applicable to works within the Eastern Portal include: EMF1, EMF2, EMF3, EMF4, AE1, AE2, AE3, AH1, AQ1, AQ2, AQ3, AR1, AR2, AR4, B2, B3, C4, CH1, CH2, CH3, CH4, CH6, CH8, CH9, CH23, FF1, FF2, FF3, GHG1, GHG2, GW4, LU1, LU4, LV1, LV2, LV3, LV4, NV1, NV3, NV4, NV5, NV6, NV7, NV8, NV9, NV10, NV11, NV13, NV21, SC1, SC2, SC4, SC6, SC7, SC8, SC10, SW1, SW2, T2, T3, T4, T5, T6, T10.

#### 4.8.6. RESPONSE TO UDS

Refer to Section 5.2.

#### 4.8.7. TIMING OF WORKS

Early Works scope at Eastern Portal will commence following the approval of this Early Works Plan, with site establishment and other construction activities taking three to six months to complete. Subsequent works at Eastern Portal will be undertaken as per the approved Development Plan. Notification are to be sent to applicable stakeholders in advance of works commencing.

## 5. PROCESS AND CONTROLS FOR DELIVERING THE EARLY WORKS

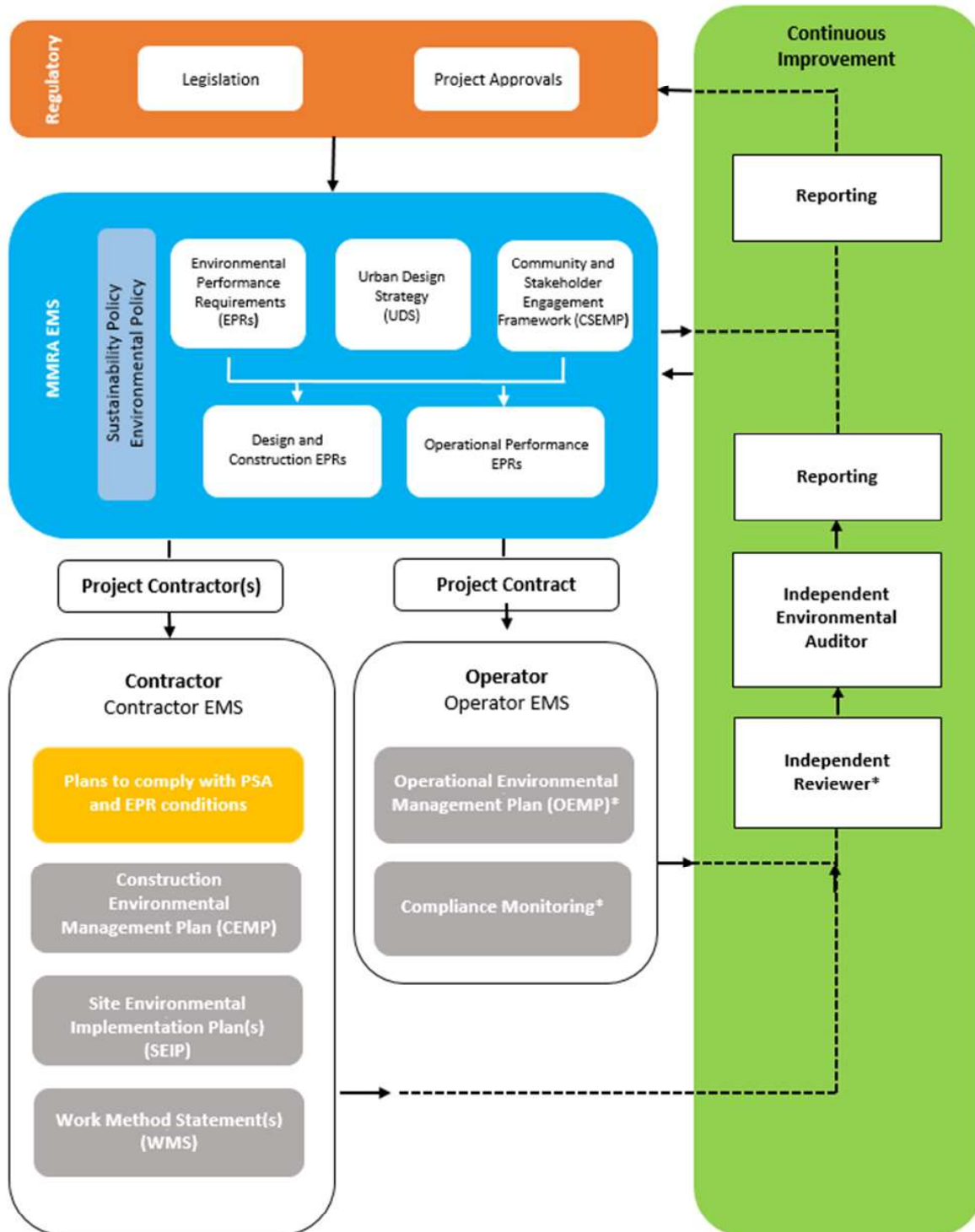
The following sections have been prepared to provide an explanation as to how Early Works will be undertaken in accordance with the approved EPRs and UDS (pursuant to Clause 4.9.3 of the Incorporated Document), and to detail the management structure and broader communication process associated with the delivery of the works. This includes:

- Section 5.1 provides a summary of the overarching Environmental Management Framework that CYP will operate under and also outlines the RPV's Environmental Management System
- Section 5.2 outlines the management structure, processes and controls that CYP will follow during Early Works, including to address the relevant EPRs. It also summarises risks, roles, reporting and communication and stakeholder obligations
- Section 5.3 discusses relevant considerations as detailed within the UDS and outlines how applicable considerations will be integrated into the design and construction program.

### 5.1. ENVIRONMENTAL MANAGEMENT FRAMEWORK

The EMF has been developed by RPV to address the requirement of Clause 4.6 of the Incorporated Document and is summarised in Figure 12 below. The EMF provides a transparent and integrated governance framework to manage environmental aspects associated with the design, construction and operational phases of the Project. The requirements of the EMF and the EPRs will be enforced by RPV on behalf of the State through the contractual arrangements for the delivery of the Project. Clause 4.9.10 of the Incorporated Document requires that Early Works development be carried out in accordance with an approved Early Works Plan.

The EMF has been informed by the environmental risk assessment and specialist environmental studies completed for the EES. The EMF identifies accountabilities for the delivery and monitoring of actions required to achieve the outcomes of the EPRs. The EMF requires that RPV, Contractors and Operators operate under a certified Environmental Management System (EMS).



\*Applies to Main Works Contractor only

Figure 13: Environmental Management Framework adapted for the Metro Tunnel Project.



The RPV EMS Manual provides a structured management approach for outlining and tracking compliance with the environmental management responsibilities for all parties, including the contractors. The Manual requires the establishment of a system whereby project environmental risks and impacts are managed in accordance with ISO 14001 requirements and the relevant obligations as stipulated under the EPRs (refer to Table 12). The Manual also provides guidance on development of subordinate plans, systems and tools including the Contractor's CEMP, and Site Environment Implementation Plans (SEIPs) (noting that Operational Environmental Management Plans (OEMP) are not applicable to the delivery of Early Works).

## 5.2. CYP EARLY WORKS PROCESSES AND CONTROLS

Figure 13 below outlines the overarching document structure that will be adopted by CYP during the delivery of Early Works. This covers RPV's planning and guidance documents and the various plans, strategies and supporting documentation that derive from them.

### 5.2.1. CYP'S ENVIRONMENTAL MANAGEMENT SYSTEM

CYP's EMS is certified to ISO 14001, and reflects the requirements of the overarching RPV EMS Manual. The EMS provides a structured framework to support the planning and implementation of environmental protection measures required to drive environmental compliance. CYP is operating under an ISO 14001-certified EMS which will be regularly audited throughout the delivery of the Early Works. Supporting the EMS will be the project CEMP which will guide the implementation of the broader EMS requirements, and provides a structure for measurement and evaluation of environmental compliance.

Compliance is tracked through a number of tools including the Obligations Register. This Register is used to detail all licences and approvals required and / or obtained by CYP. The Register has a mechanism for allocating actions and responsibilities under each license or approval, and for tracking the status and evidence of compliance up to project completion (see Figure 14).

The EMS and relevant supporting tools will be audited by the Independent Environmental Auditor prior to commencement of Early Works to confirm that it is fit for purpose, and in accordance with the requirements of the EMF and ISO 14001. Audits will be ongoing throughout delivery of the Early Works to monitor the system and its implementation.

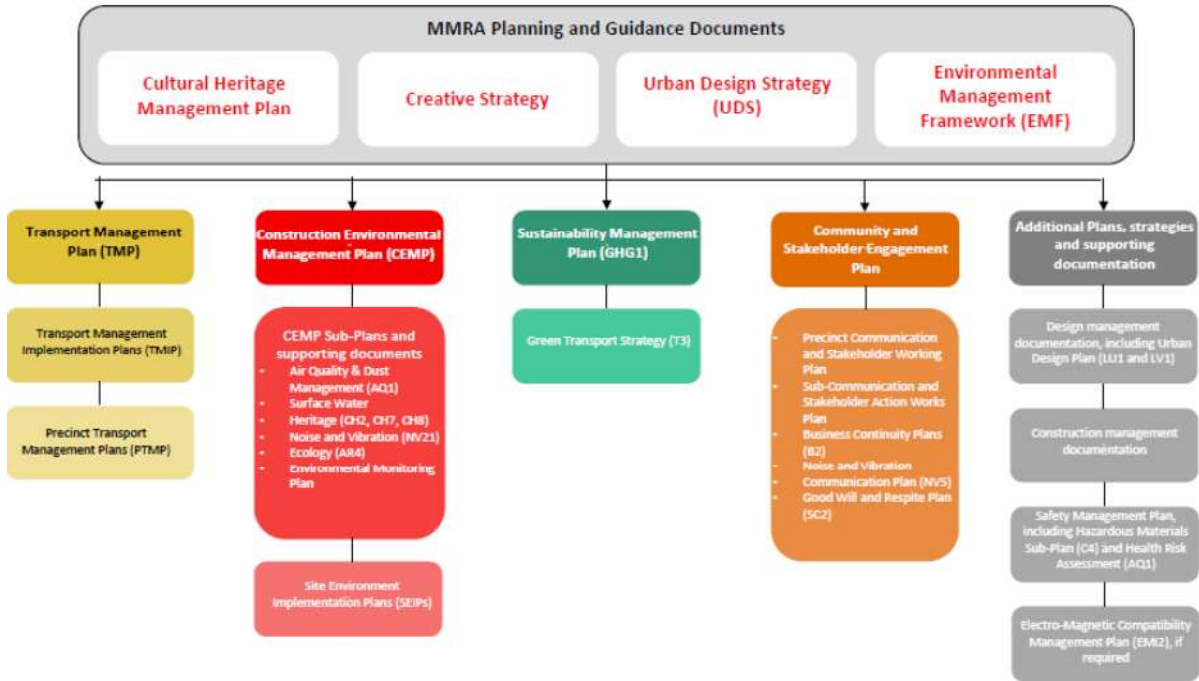


Figure 14: Summary of the CYP document structure that has been adopted for Project delivery

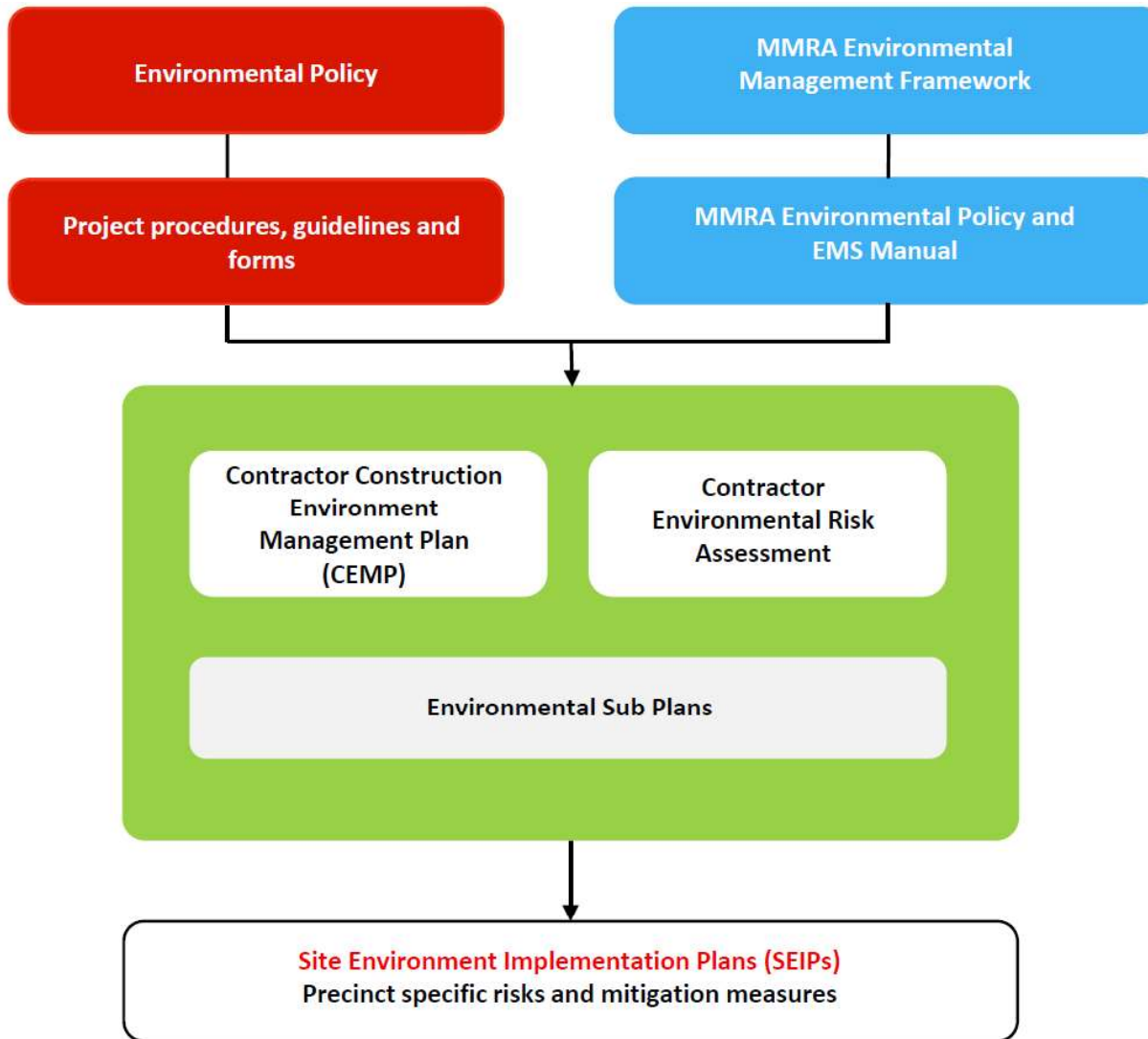


Figure 15: CYP’s Environmental Management System that has been adopted for the delivery of Early Works.

### 5.2.2. RISK ASSESSMENT

An iterative assessment of environmental risk will be ongoing throughout Project delivery. This process commenced with the development of a project risk register during tender, using the EES risk registered as a basis. This register has been, and will continue to be updated on a regular basis. Control measures targeting identified risk have been included in the Project CEMP and Sub-Plans. The risk register is also used in Activity Method Statements (AMS), which are developed in advance of any activity commencing. The AMS captures risks and control measures specific to the delivery of the works in question.

The CEMP and Sub-Plans align risks from the EES process, the CYP’s risk assessment process, and the EPRs to demonstrate the relationships between risk and mitigation measures. This is reflected in Table 12, where EPRs of relevance to this Early Works Plan are identified and addressed.

In accordance with the Early Works EMS the Project risk register is reviewed on a monthly basis to capture any changes to activities and associated risk. CYP will continue to implement appropriate risk management procedures consistent with AS/NZS ISO 31000:2009, Risk management—principles and guidelines throughout Project delivery.

Close monitoring of the effectiveness of mitigation measures allows for adaptive management or risk and implementation of contingency plans where inadequate performance is identified. Specific construction risks associated with Early Works have been identified within Table 11.

Table 11: Key risks and mitigation measures associated with the delivery of CYP Early Works.

Risk	Applicable Precinct	Mitigation Measure
Removal of trees, especially in the context of impacts to landscape, heritage and amenity values.	All Precincts (in particular Parkville and Domain)	Compliance with applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), following of the design and construction hierarchy identified under Section 3, compliance with conditions of any Heritage Permit, following of the Tree Removal and Protection Checklist as agreed upon with landowners/managers.
Issues relating to surface water treatment and discharges to surface water.	All Precincts	Compliance with applicable EPRs (refer to Table 12), ongoing consultation with EPA and the water management authorities, implementation of the Surface Water Management Plan .
Noise and vibration generated during the construction phase.	All Precincts (in particular, works undertaken within Parkville, CBD North, CBD South, and Domain)	Compliance with EPRs, including the installation of monitoring points and the management of works to reduce the potential for adverse amenity impacts, notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), implementation of the Noise and Vibration Sub-Plan.
Traffic and transport management (includes local traffic congestion, dust and mud on roads).	All precincts	Compliance with applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), implementation of Transport Management Process (refer to Section 5.2.6), installation of way-finding signage and alternative access plans where significant pedestrian links are to be modified to accommodate works.
Management of spoil.	All Precincts	Compliance with applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), ongoing consultation with EPA to help classify, monitor and manage soil removed from site, compliance with EPA requirements, implementation of the Contaminated Spoil Management Plan.
Protection of historical heritage assets and values.	All Precincts	Compliance with the approved Cultural Heritage Management Plan and applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works

		taking place (refer to Section 5.2.5), ongoing consultation with Heritage Victoria to make sure historical sites are being appropriately monitored and managed, implementation of the Heritage Management Plan.
Impacts on existing businesses during the construction phase.	All Precincts	Compliance with applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), implementation of the Business Disruption Plan, ongoing monitoring of the effectiveness of initiatives.
Dust emissions impacting sensitive receivers.	All Precincts (in particular, works undertaken within Parkville)	Compliance with applicable EPRs (refer to Table 12), notification of applicable stakeholders in advance of works taking place (refer to Section 5.2.5), implementation of the Air Quality, Dust & Lighting Management Plan , ongoing monitoring of the effectiveness of initiatives.

### 5.2.3. CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

The CEMP will provide the roadmap for the implementation of the CYP EMS, and will be supported by a series of Sub-Plans addressing environmental aspects of relevance to Early Works, and Site Environment Implementation Plans (SEIPs) detailing environmental aspects and recommended control measures specific to each precinct. This set of environmental documentation will be developed to address the requirements of the EMF and the applicable EPRs, and incorporate best practice measures such as those detailed in EPA Publication No. 480, Environmental Guidelines for Major Construction Sites. The CEMP and Sub-Plans will also identify monitoring and evaluation requirements, and contingency measures to be employed where required.

Sub-Plans to be prepared to support the delivery of CYP’s Early Works, as relevant are:

- Air Quality and Dust Management
- Heritage Management
- Noise and Vibration Management
- Surface Water Management
- Environmental Monitoring Management
- Ecology (including Arboriculture and Biodiversity);

The environmental documentation is being developed to address the findings from the EES, from more recent technical investigations, and outcomes of the risk assessment process (refer Table 11). The documentation will also consider outcomes of stakeholder consultation, capturing and addressing specific concerns where appropriate. This will continue to feed into the impact management through a number of processes, and where necessary may require future updates to the CEMP or one of the Sub-Plans.

The Sub-Plans will detail control measures for implementation in order to meet the requirements of the EPRs, and with the aim of avoiding and minimising impacts to identified values. The SEIPs will provide a summary of the risks and control measures specific to the respective precinct.

The CEMP, Sub-Plans and SEIPs will be audited and approved for use by the Independent Environmental Auditor prior to commencement of Early Works.

The Project Land contains environmental, cultural heritage and social values that could potentially be impacted by Early Works activities. Specific controls designed to meet the requirements of the EPRs by avoiding and minimising impacts to key assets will be detailed in the CEMP and Sub-Plans. The CEMP also interfaces with the SEIPs which will describe how environmental aspects and impacts will be managed within each distinct precinct of the site. Sub-Plans are to be audited by the Independent Environmental Auditor.

#### 5.2.4. ADDITIONAL PLANS AND REPORTS AND DOCUMENTATION

Additional plans and reports including plans referenced in the Sub-Plans will be prepared, where applicable, in accordance with the risk assessment and/or required to demonstrate that the Early Works will be delivered in accordance with the requirements of the EMF, EPRs and UDS. Where required these plans include:

- Archaeological management plans (developed as required for Heritage Consents)
- Heritage interpretation strategy
- Tree protection plan(s)
- Design management documentation
- Construction management documentation
- Safety management plan (including hazardous material sub-plans and health risk assessment)
- Electro-magnetic interference management plans (if required).

A Cultural Heritage Management Plan has been approved under the Aboriginal Heritage Act 2006.

#### 5.2.5. COMMUNICATION AND STAKEHOLDER ENGAGEMENT PROCESS

Meaningful communication is key to ensuring residents and other stakeholders impacted by the Project are informed of Project works, and that they are given the opportunity to provide input into key project milestones. On this basis, the overarching approach to stakeholder and community engagement has been designed to address the strong stakeholder engagement framework as advocated by the Minister's Assessment and as reflected within the approved EPRs. CYP recognises that communication will be an important way to mitigate and manage risk of impacts to landowners during the Early Works construction process.

A summary of the communication and stakeholder engagement process as adopted by CYP is identified in Figure 15. The adopted approach has been designed to make sure that the lines of communication between the proponent and those affected by the Project are clear. This measure has been adopted to help mitigate against the potential for adverse impacts. Of specific relevance to the CYP's Early Works is the inclusion of EPR SC10 which requires that written notice be provided to adjoining landowners in advance of any Early Works being carried out within a precinct. Further details demonstrating how EPRs are being addressed is provided within Table 12, whilst specific consultation requirements associated with the Early Works Plan (including obligations as detailed under Clause 4.9.4 of the Incorporated Document) are addressed under Section 6 of this Early Works Plan.

CYP's Communications and Stakeholder Engagement Management Plan (CSEMP) is to be audited by the Independent Environmental Auditor prior to being submitted to RPV for approval. The CSEMP must be consistent with RPV's Community and Stakeholder Engagement Management Framework (CSEMF), which is subject to the Minister for Planning's approval.

CYP will also implement a Business Disruption Plan focussed on engaging and understanding local business requirements and implement measures to provide support to local businesses during construction. This Business Disruption Plan will reflect RPV's overarching Business Support Guidelines for Construction.

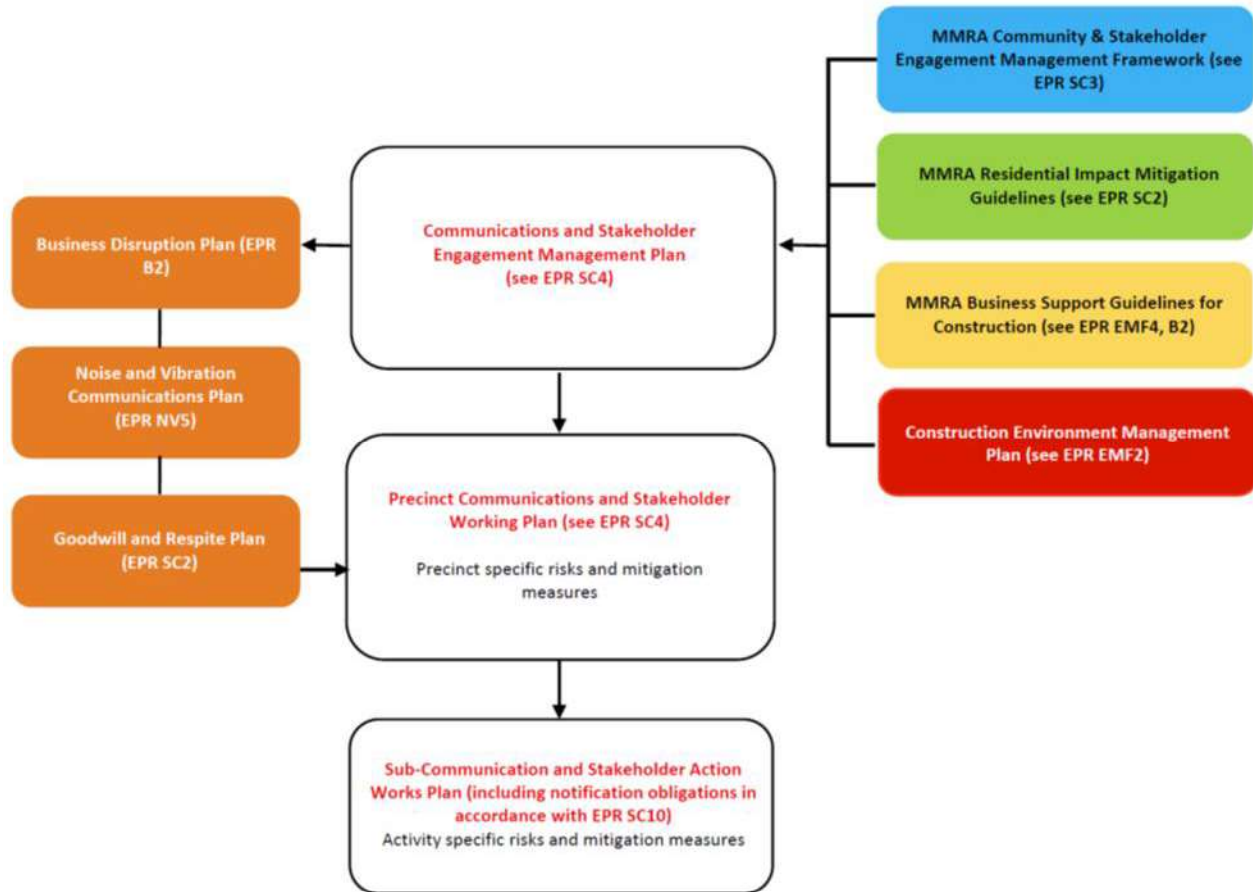


Figure 16: Summary of the communication and stakeholder engagement process as adopted by CYP

### 5.2.6. TRANSPORT MANAGEMENT PLAN

The Transport Management Plan (TMP) is the means by which CYP will minimise disruption to traffic, public transport, car parking, pedestrian and bicycle movements during construction and address the requirements of relevant EPR. Typically called a Traffic Management Plan, for Metro Tunnel Project it is referred to as the Transport Management Plan to ensure all modes of active and passive transport are considered.

An overarching Transport Management Plan (TMP) is being prepared for the delivery of CYP works, including the Early Works scope. The TMP outlines how CYP’s works are to interface with the public to maximise the safety of all road users, the public, and the construction workforce, whilst minimising disruptions during project delivery. The TMP provides a coherent and organised approach to identifying and managing the direct and cumulative impacts of construction on the transport network with consideration of all modes including buses, trams, commercial vehicles, cars, pedestrians and cyclists as well as parking and loading areas.

The TMP is being prepared in consultation with the Traffic and Transport Working Group (TTWG) and agencies relevant to each plan including relevant Council/s, Heritage Victoria, the Roads Corporation, Melbourne Water, Public Transport Development Authority and the Environment Protection Authority and affected stakeholders as relevant, as required under the Incorporated Document and any relevant EPR.

The TMP sets the foundation for the development of more detailed precinct based Precinct Transport Management Plans (PTMPs) which set out how the interface between the public and construction will be maintained safely at all times.

The purpose of PTMPs is to identify transport management initiatives that are specific to particular precincts and work stages / packages in order to minimise the construction impacts on the surrounding transport network whilst maintaining a safe environment for the workforce and the public. Elements incorporated into PTMPs include:

- Identifying, minimising and managing risks associated with the worksite and managing traffic
- Providing sufficient delineation and warning to provide safe and efficient movement of vehicles past the work site
- Minimising the number of roads/lanes that are closed at the same time and the duration of temporary road/lane closures
- Ensuring adequate advanced/guidance signage is provided for motorists
- Ensuring advance communication of impacts to stakeholders and the community
- TMIPs will be required where works affect, change, traverse or operate adjacent to the transport network
- Short-term traffic arrangements
- Long-term traffic arrangements
- Site access where the activity warrants changes or additional signage
- Address potential impacts bicycle parking (where relevant)
- Ensuring local access requirements for residents and business are addressed
- Ensuring any events or activities in the precinct are catered for or suitable managed
- Ensuring EPR's are being established and followed and monitored as required
- Construction activities adjacent to, or on, the transport network.

Transport Management Implementation Plans (TMIPs) will also be developed as planning tools, specific to construction methods and areas of work. Figure 16 summarises the overarching approach to transport management as has been adopted by CYP. Transport Management Plans will be approved by RPV prior to the commencement of the relevant works.



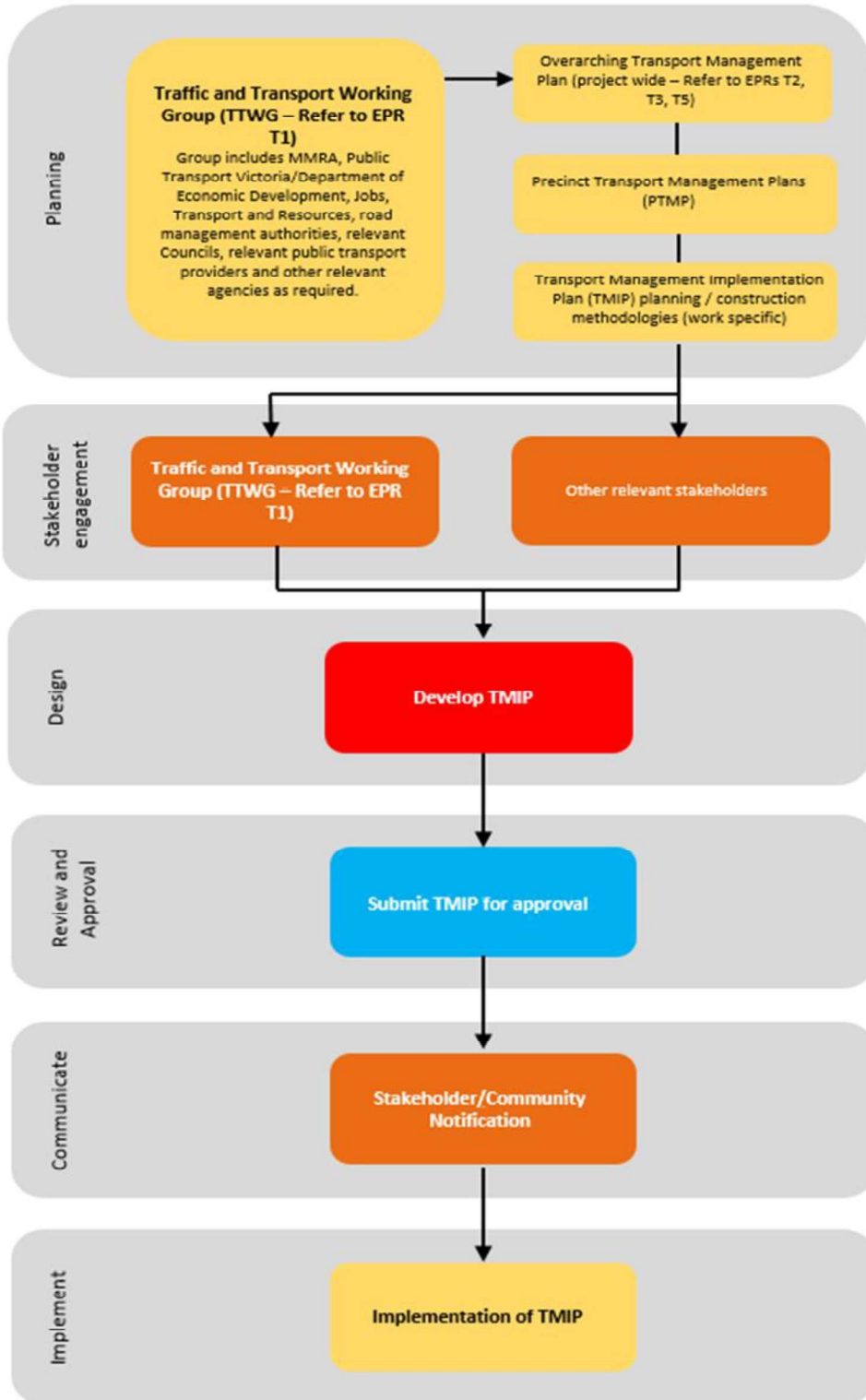


Figure 17: Summary of the overarching approach to transport management as has been adopted by CYP.

### 5.2.7. ROLES AND RESPONSIBILITIES

Roles and responsibilities in implementing the EMF during Early Works are described in detail in the EMF itself and are summarised below.

RPV has been established to deliver the Project. RPV specific responsibilities in relation to environmental management for the delivery of CYP Early Works are to:

- Review and approve the project CEMP, SEIPs, TMPs, and Sub-Plans
- Monitor and audit the implementation of the CEMP and compliance with the EMS (and EPRs).

CYP has the following responsibilities in relation to environmental management:

- Develop the EMS for the delivery of Early Works
- Obtain all other required primary approvals, permits and consents not obtained by RPV under the Planning and Environment Act 1987 and Heritage Act 2017 (i.e. heritage consents for works within Project Land)
- Obtain relevant secondary approvals from landowners/managers (i.e. a 'consent for works' from Council)
- Develop a CEMP to meet the requirements of the EMF and comply with EPRs
- Compliance with the UDS
- Mitigate environmental risks through design and construction
- Appoint an Environment Manager, or equivalent, who has primary responsibility for ensuring compliance with EPRs and implementing the CEMP
- Undertake reporting, monitoring and auditing as required by the CEMP
- Delivery of the works in accordance with the EMF.

### 5.2.8. MONITORING, REPORTING AND AUDITING

Environmental monitoring, inspections, auditing and reporting will be undertaken by CYP to check compliance with specific environmental targets, controls, policies, legislation and obligations during the day to day work activities. The details of this program are included in the CEMP, Sub-Plans and the Environmental Monitoring Plan as it relates to specific environmental aspects. Where relevant and appropriate, such information will be also captured on the SEIPs.

Monitoring and reporting will likely include, but not be not limited to, surface water quality monitoring (including prior to discharge), visual inspection of air quality, noise and vibration monitoring, inspections of implementation of environmental and heritage control (e.g. tree protection fencing, heritage protection fencing, sediment controls), and monitoring of changes to traffic and access.

CYP will submit Monthly Environmental Management Performance Reports to RPV detailing the following information:

- Inspections
- Non-compliance reports
- Audit findings
- Incidents
- Monitoring results
- Waste, water use data
- Complaints
- Innovations and achievements

- Training and Awareness delivery
- Status of environmental aspects related to the Project
- Fuel and energy use information.

Allowance will be made within the CEMP for contingency reporting in the event of an incident or issue including:

- Discovery of a potential Aboriginal site or artefact
- Discovery or any unexpected / unplanned damage to a place identified in the Victorian Heritage Register
- In the event of a spill or discharge of polluted water/waste.

CYP will also undertake reporting in accordance with National Greenhouse and Energy Reporting requirements.

Regular environmental inspections will be undertaken by CYP and RPV, reflective of the types and risk ranking of activities being undertaken. For example, more regular inspections will be undertaken for high risk activities. The outcomes of inspections will be captured within the CYP management system, which allows for the allocation and tracking of corrective actions where required.

Regular auditing will also be undertaken by CYP, RPV and the Independent Environmental Auditor. The CEMP will outline the audit program, including details of frequency, methods, responsibilities, planning requirements and reporting. When establishing the audit schedule and scope, the environmental risk and the results of previous audits will be considered. Non-conformances identified in the audits will be reported to RPV through an online Incident Reporting Management Database where their management and recording of close-out will be maintained, and will also be captured within the CYP management system.

## **ROLE OF THE INDEPENDENT ENVIRONMENTAL AUDITOR**

CYP has appointed an Independent Environmental Auditor pursuant to the requirements of EPR EMF3, and is responsible for auditing compliance with approved plans. As detailed above, they will audit and sign-off on the project CEMP, Sub-Plans, and precinct-specific SEIPs prior to commencement of relevant works or activities. The Auditor will also conduct audits against the implementation of the CEMP, Sub-Plans, SEIPs, and approval conditions, including in relation to compliance with the EPRs. This will involve both site inspections as well as review of office documentation and processes. Additional technical requirements as stipulated by the EPRs and to be fulfilled by an Independent Environmental Auditor include referral of groundwater modelling in accordance with the Australian Groundwater Modelling Guidelines, and review of the Construction Noise and Vibration Assessment Reports.

## **5.2.9. ENVIRONMENTAL PERFORMANCE REQUIREMENTS**

The EPRs are defined within the EMF and provide project-wide environmental requirements that must be achieved during design, construction and operation of the Metro Tunnel. The Incorporated Document requires the Project to be constructed and operated in accordance with the EPRs approved by the Minister for Planning. Early Works activities form a component of the larger Metro Tunnel Project, and as such not all of the EPRs are applicable to the works detailed herein. The EPRs are generally not prescriptive, rather they have been developed and written in such a way as to guide and drive outcomes. This reflects the EES, which did not mandate or commit to particular mitigation or management solutions, but rather provided examples of how an environment effect could be mitigated.

For those EPRs which are relevant to CYP Early Works a risk-weighted assessment has been completed of the nature and extent of potential impacts. This has allowed CYP to develop control measures which are commensurate and proportional to the works as they relate to the EPRs.

Table 12 below details EPRs considered relevant to the delivery of Early Works, outlining how they will be addressed by CYP.

Table 12: CYP Response to EPRs

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
<b>Environmental Management Framework</b>	EMF1-EMF4	The project Environmental Management Framework and supporting documentation is described in detail above, and includes an ISO 14001-certified EMS. As part of CYPs EMS, a CEMP, Sub-Plans, and SEIPs, are being developed and will be approved for implementation prior to the commencement of Early Works. This documentation provides a transparent framework with clear accountabilities for managing environmental aspects and impacts associated with Early Works activities. These also address Commonwealth and State legislative requirements, project approvals and licences (including the EPRs), and best practice environmental management. The EMS and supporting environmental documentation will be audited, and approved for use, by the Independent Environmental Auditor prior to commencement of Early Works. Note: Development of operational management documentation is not relevant to the scope of Early Works.	CYP operates in accordance with an ISO 14001 certified EMS. This EMS aligns with the overarching requirements of the RPV EMS Manual and Environmental Policy, which have also been developed in accordance with the requirements of ISO 14001 (refer to Figure 15 of this Plan).
			EMF2 A CEMP, Sub-Plans, and SEIPs have been developed and approved for implementation prior to the commencement of Early Works. Other plans and strategic documents required by the EPRs have also been developed to guide delivery of the Early Works. The CEMP has been prepared in accordance with EPA Publication 480, <i>Environmental Guidelines for Major Construction Sites</i> (EPA 1996) and has been audited, and approved for use, by the Independent Environmental Auditor prior to commencement of Early Works. Development of the EMS and delivery of supporting documentation was integrated into the Project program. Stakeholder consultation has been, and will continue to be, ongoing throughout the Project, and includes regular meeting with councils, Heritage Victoria, roads and public transport corporations, water authorities, and the EPA, amongst others.
			EMF3 This program allows for the Independent Environmental Auditor to approve proposed plans, as required by the EMF, prior to commencement of relevant works. The Independent Environmental Auditor has also been engaged to complete regular compliance audits against implementation of the CEMP, SEIPs, Sub-Plans and therefore the EPRs.

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>EMF4 Consistent with AS/NZS 10002:2014 <i>Guidelines of Complaint Management in Organisations</i>, a process for recording, managing and resolving complaints has been developed by RPV and documented in the Community and Stakeholder Engagement Management Framework (refer to EPR SC3). The CYP Communications and Stakeholder Engagement Management Plan details a complaints management process, consistent with the above Australian Standard, and addresses the requirements of the Business Support Guidelines for Construction (refer to EPR B2).</p>
<p><b>Aquatic Ecology &amp; River Health</b></p>	<p>AE1-AE3 The Surface Water Management Plan is under development and outlines control measures to be implemented to manage potential sedimentation and erosion, and which have been developed in accordance with the Best Practice Environmental Management: Environmental Guidelines for Major Construction Sites – EPA Publication 480 (EPA 1996). Specified control measures will include vehicle wheel wash and rumble bars at worksite egress points, use of designated stockpile and chemical storage locations, and use of street sweepers.</p> <p>In some instances, construction water will be captured and disposed of, or treated, off-site. The location of waterways or stormwater pits are identified on SEIPs, along with the respective environmental control measure.</p> <p>Implementation of control measures in the Surface Water Management Plan will aim to protect waterways, waterway function, and water quality in accordance with statutory objectives and best practice.</p>	<p>AE1 Project design is undertaken in consultation with the relevant council and asset-owner or operator. Where relevant, the Project design incorporates stormwater management and treatment devices required to address the State Environment Protection Policy (SEPP) (Waters of Victoria). Methods for management and treatment of stormwater during construction are being outlined in the CEMP and Surface Water Management Plan which will address requirements of the SEPP for suspended solids, litter and other pollutants.</p>	
			<p>AE2 The Surface Water Management Plan outlines sediment and soil controls relevant to Early Works, and has been developed in accordance with the EPA's Best Practice Environmental Management: Environmental Guidelines for Major Construction Sites – EPA Publication 480 (EPA 1996). Specific measures are to be identified on SEIPs, and may include, vehicle wheel wash and rumble bars at worksite egress points, use of designated stockpile and chemical storage locations, covering loads, street sweeping, and water quality monitoring.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	AE3		Construction water captured will be discharged to sewer, in accordance with relevant Trade Waste Agreements, which would be granted through the applicable authority.
	AE5		<p>The Surface Water Management Plan outlines sediment and soil controls relevant to Early Works, and has been developed in accordance with the EPA's Best Practice Environmental Management: Environmental Guidelines for Major Construction Sites – EPA Publication 480 (EPA 1996).</p> <p>In addition, the Intake Substation design is being undertaken in consultation with City of Melbourne and Melbourne Water to ensure flood immunity. The Intake Substation design incorporates stormwater management and treatment devices required to address the State Environment Protection Policy (SEPP) (Waters of Victoria). Methods for management and treatment of stormwater during construction are being outlined in the CEMP and Surface Water Management Plan which will address requirements of the SEPP for suspended solids, litter and other pollutants.</p>
<b>Aboriginal Cultural Heritage</b>	AH1	A Cultural Heritage Management Plan (CHMP) was prepared by RPV and has been approved under the Aboriginal Heritage Act 2006. CYP must comply with requirements detailed in the CHMP as it relates to the Early Works. The CHMP details protective measures, monitoring and reporting requirements, triggers for site supervision by a Heritage Advisor, and contingency measures in the case of unexpected finds.	AH1 A Cultural Heritage Management Plan (CHMP) was prepared by RPV and has been approved under the Aboriginal Heritage Act 2006. Requirements of the CHMP are being integrated into the Heritage Management Plan, and is incorporated into project management processes including inductions, toolbox talks, and identification of Aboriginal Places on construction drawings.
<b>Air Quality</b>	AQ1-AQ3	The CYP CEMP and associated Air Quality, Dust & Lighting Management Plan will address key risks to air quality from the Early Works activities. Qualitative air quality risk assessments are being completed for each precinct as	AQ1 The Air Quality, Dust & Lighting Management Plan includes control measures to avoid and minimise the production of dust created by Early Works activities. Qualitative air quality risk assessments are being

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>necessary, specific to the activities and sensitive receptors. Potential risks include production of dust and odour. The objective of the Air Quality, Dust &amp; Lighting Management Plan is to avoid or minimise potential adverse air quality impacts, affecting the amenity of nearby sensitive receptors. The Sub-Plan is being prepared in consultation with EPA, incorporating controls from the EPA's <i>Best Practice Environmental Management: Environmental Guidelines for Major Construction Sites – EPA publication 480</i> (EPA 1996), and will be audited and approved for implementation prior to the commencement of relevant works (refer to Section 5.1).</p>		<p>completed for each precinct as necessary, specific to the activities and sensitive receptors present. The assessments identify any air quality criteria to be incorporated into the Sub-Plan, which will then guide monitoring requirements for key sensitive receptors. Sensitive receptors considered within the air quality assessment and Sub-Plan include the Peter Doherty Institute, the University of Melbourne, the Royal Melbourne Hospital, City Baths, RMIT, St Paul's Cathedral, Melbourne Grammar School, as well as residences and business adjacent to works areas.</p> <p>Consultation with key affected stakeholders guides the development and revision of the Sub-Plan and associated management measures. Further to this, the Communications and Stakeholder Engagement Management Plan and its sub-plans include respite measures for unavoidable air quality impacts and measures for informing the community of upcoming works. For high risk activities, a human health risk assessment for potential airborne contaminants is being prepared to further guide control measures detailed in the Air Quality, Dust &amp; Lighting Management Plan. This assessment considers the relevant project activities across each precinct, and the potential presence of contaminants of concern. The outcomes of this assessment are integrated into the Safety Management Plan as relevant.</p>
			<p>AO2 The Air Quality, Dust &amp; Lighting Management Plan has been developed in consultation with the EPA and accordance with EPA Publication 480, <i>Environmental Guidelines for Major Construction Sites</i> (EPA 1996).. The Sub-Plan seeks to prevent the generation of dust in preference to applying dust suppression measures.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>Measures to be adopted which will help to prevent the generation of dust include, minimising the distance travelled on unsealed surfaces, the extent of cleared land, and the sealing or reinstatement of disturbed areas as soon as possible following works.</p>
	AQ3		<p>Measures for controlling the emission of smoke, dust, fumes and other pollution into the atmosphere are being developed in accordance with the <i>SEPP (Air Quality Management and Ambient Air Quality)</i>. These control measures are detailed in the Air Quality, Dust &amp; Lighting Management Plan and include, scheduling works so that areas of cleared land are minimised during the drier months, the use of street sweepers, installation of stabilised site entry/exist points, covering of trucks taking soil off-site, management of the size and siting of stockpiles, and wetting down of exposed surfaces.</p>
<b>Arboriculture</b>	AR1-2; AR4-5	<p>Trees within the Project Land include a mix of native and exotic species, the majority of which are planted street trees in public open spaces, heritage reserves, and heritage parklands. Tree impacts are to be managed in accordance with the Ecology Management Plan, advice as received from the Project Arborist and protocols as agreed with relevant asset owners or land managers, including councils, Heritage Victoria and the University of Melbourne. The aim of this process is to avoid or minimise adverse effects on landscape, visual amenity and recreational values as far as practical (refer to the hierarchy as per Section 2.3).</p> <p>Any required tree removal will be undertaken in conjunction with necessary stakeholder consultation. Fauna inspection and relocation protocols are specified in the Ecology Management Plan being developed. This includes the development of a translocation plan required prior to site</p>	<p>AR1</p> <p>Tree management consideration and removal requirements associated with Early Works have been identified under Section 2.3 of this Plan. These considerations have been achieved through the planning and design processes, which have identified opportunities for minimising clearing requirements, which in turn have been guided by tree assessment work conducted by RPV. A design and construction hierarchy has been adopted to inform activities undertaken around trees, whilst the flow chart included as Figure 3, captures CYP's process for guiding tree removal considerations as part of the works.</p> <p>In addition to this, the Ecology Management Plan sets out processes for reviewing potential tree impacts and outlines measures to maximise tree retention. This Sub-Plan reinforces that the detailed design process is to</p>



Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>clearance and details management requirements for listed fauna species if encountered.</p> <p>The scope for tree replacement works is limited in the context of Early Works activities as most of these areas will be subject to further development from Main Works. The Project will ensure tree and vegetation reinstatement occurs at the earliest opportunity.</p>		<p>provide for the maximum tree retention in both public and private land, having regard to habitat linkages and corridors where practical. An arboricultural or ecological assessment of all trees or significant vegetation with potential for relocation will also occur in advance of tree or vegetation removal.</p> <p>RPV have developed a Tree Removal Protocol to guide all contractors working on the Metro Tunnel in capturing information relevant to tree removals, and which requires RPV approval prior to removal of any tree. Trees to be removed during Early Works are only those associated with the Early Works scope and activities. Tree removal which requires a heritage permit will progress in accordance applicable permits and conditions, and in consultation with Heritage Victoria.</p>
AR2			<p>For works outside of areas which are required for Main Works, revegetation will be undertaken as detailed in the Development Plans. In instances where soil is being replaced for the purpose of future tree planting, quality soil will be used in sufficient volumes and works will be undertaken in consultation with the applicable land or asset owner/manager. The quality of this soil will support the long-term viability of trees planted within the area. Any such areas designated for future plantings would also give consideration to incorporation of Water Sensitive Urban Design (WSUD), to be agreed with the asset owner.</p>
AR4			<p>Tree Protection Plans are developed for all precincts across the Project where works have the potential to affect trees. The Tree Protection Plans, developed by the Project Arborist, are accordance with <i>AS4970- 2009 Protection of Trees on Development Sites</i>, as well as</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>council policies as they relate to the works. The Project Arborist participates in the review of design and construction method, providing guidance at each stage with the aim of maximising tree retention. Management measures in the Tree Protection Plans include the installation of structural barriers, guidelines on branch or root trimming, and, where necessary, requirements around arborist supervision of works. Where these Tree Protection Plans relate to a heritage place, works are to commence in consultation with Heritage Victoria and/or the relevant Council (as appropriate). This includes compliance with conditions of any heritage permit.</p>
AR5			<p>For trees on City of Melbourne land to be retained and protected, a bank guarantee or bond of the trees' value will be held against the approved Tree Protection Plan for the duration of the works (in accordance with the City of Melbourne Tree Retention and Removal Policy).</p>
<b>Business</b>	B2-B5	<p>CYP has prepared a Communications and Stakeholder Engagement Management Plan, precinct-specific working documents, sub-plans specific for packages of work, and a Business Disruption Plan. The Communications and Stakeholder Engagement Management Plan identifies at a high level how CYP will proactively engage with each stakeholder group and manage their concerns, issues and interests. This plan seeks to manage effects on the social fabric of the community during Early Works, including possible impacts associated with land use changes, business functionality and access to services and facilities. The plan has been refined through consultation between CYP, RPV, and key stakeholders. The Plan guides future consultation with stakeholders, including but not limited to:</p>	<p>B2 The Business Disruption Plan has been developed and reflects the requirements of RPV's Business Support Guidelines for Construction. This process aims to manage potential impacts to non-acquired businesses and commercial property owners and details a methodology for ongoing engagement with affected businesses.</p>
	B3		<p>CEMP and Sub-Plans which relate to potential amenity impacts such as those relating to noise, vibration, and air quality will address this EPR. CYP are planning for amenity impacts by engaging an acoustic and vibration specialist to undertake impact assessments and inform mitigation measures within the Noise and Vibration Sub-Plan.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
		<ul style="list-style-type: none"> <li>• Statutory Authorities</li> <li>• Local Councils</li> <li>• Traditional owners</li> <li>• Community groups</li> <li>• Sensitive receptors</li> <li>• Education facilities</li> <li>• Key stakeholders</li> <li>• Other residents</li> <li>• Local business owners.</li> </ul>	<p>B4 Vehicular and pedestrian access to hospital emergency departments will be maintained during Early Works. This will be outlined in the relevant Precinct Transport Management Plan (refer to Section 4.1.2).</p> <p>B5 Prior to Early Works commencing in the Parkville precinct, a Parkville Class 1 Emergency Management Plan is to be developed which will include a stop work contingency plan for Class 1 emergencies, as defined in the <i>Emergency Management Act 2013</i>. This plan will be developed in consultation with relevant medical institutions and will seek to minimise potential impact to emergency procedures during Early Works. Emergency services will retain access to hydrants on Barry Street.</p>
<b>Contaminated Land &amp; Spoil Management</b>	C4	The hazardous materials management sub-plan will be developed to the satisfaction of EPA and WorkSafe, addressing relevant regulations, standards, and incorporating best practice measures.	<p>C4 The hazardous materials management procedure as part of the safety management system provides details on the safe handling and storage of hazardous substances, and will be to the satisfaction of WorkSafe and in consultation with the EPA.</p> <p>This procedure operates in conjunction with emergency response and incident management documentation to manage risks to the environment, employees, visitors, and the general public, associated with hazardous substances.</p>
<b>Historical Cultural Heritage</b>	CH1-12; CH20; CH23	Design and construction of Early Works aims to avoid and/or minimise impacts on cultural heritage values. Control methods to achieve this are being detailed in the Heritage Management Plan, which identifies and addresses heritage values of relevance to Early Works activities. This Plan will be developed in accordance with project approvals, and will provide measures for managing impacts to known heritage places or objects.	<p>CH1 Works have been designed to avoid and minimise impacts on the cultural heritage values of heritage places where practicable. This is guided through control measures identified in the Heritage Management Plan, which includes the identification of heritage places on design and construction drawings, monitoring requirements and consultation with Heritage Victoria and heritage specialists in advance of works taking place.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>CYP has been working with Heritage Victoria and a number of heritage specialists to advise on heritage protection and undertake further desktop and detailed assessments. Recommendations and outcomes of the specialist investigations and assessment will be incorporated into the Sub-Plan as required.</p> <p>In accordance with the <i>Heritage Act 2017</i>, heritage permits are to be sought in advance of relevant Early Works including for works on Royal Parade, Main Entrance Gates (Pillars and Gates), St Kilda Road, Domain Parklands, Shrine of Remembrance, Albert Reserve (South African Soldiers Memorial). In addition, heritage consents will be obtained in advance of any Early Works occurring within a site identified on the Victorian Heritage Inventory. Once issued, all applicable conditions of the heritage permits and consents will be incorporated into the project Obligations Register.</p>	<p>CH2</p>	<p>As detailed above, a Heritage Management Plan has been developed which identifies mitigation measures to avoid or minimise impacts on cultural heritage and heritage places. Measures include the engagement of heritage consultants to advise on work methods, undertake precondition surveys and identify mitigation measures where necessary. A contingency protocol for the discovery of heritage sites or artefacts is included within the Sub-Plan and will be made available on all work sites.</p>
		<p>CH3</p>	<p>Prior to commencement of relevant works vibration and ground movement assessments are undertaken in accordance with the applicable EPRs in order to understand the risk to heritage values and places. In addition, condition assessments will be undertaken for heritage places situated in close proximity to proposed works. Should works result in damage to a heritage place, rectification would be undertaken in accordance with accepted conservation practice (including the <i>Australia /COMOS Burra Charter 2013</i>), with input from a qualified heritage practitioner, in consultation with Heritage Victoria and applicable stakeholders.</p>
		<p>CH4</p>	<p>Where demolition or modification of heritage places is required, archival photographic recording will occur prior to construction in accordance with Heritage Victoria's <i>Specification for the Archival: Photographic Recording for Heritage Places and Objects</i>. This process will be agreed with Heritage Victoria, or the relevant Council, and is outlined in the Heritage Management Plan.</p>
		<p>CH5</p>	<p>Where dismantling, storage and reconstruction of a heritage structure or place is required suitable methodologies will be developed with reference to the</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>Australia ICOMOS Burra Charter 2013, and in consultation with Heritage Victoria, or the relevant council or landowner. Any such works would be overseen and documented by an appropriately qualified heritage practitioner.</p> <p>Heritage structures to be removed for storage include the Main Entrance Gates (Pillars and Fence) at University of Melbourne. The process for removing this structure will be captured within the respective Heritage Permit. Sections of impacted bluestone kerb and channel on Royal Parade and St Kilda Road will be similarly stored and reconstructed following completion of relevant works, and in accordance with any permit conditions.</p> <p>Heritage interpretation material will be displayed where heritage objects are temporary removed, including for the South African Soldiers Memorial and the Main Entrance Gates (Pillars and Fence). This material will be discussed and agreed with relevant parties, including Heritage Victoria and the University of Melbourne.</p>
CH6			<p>Control measures for the protection of heritage places and their settings is detailed in the Heritage Management Plan. Recommended control and protection measures include:</p> <ul style="list-style-type: none"> <li>Designing to avoid significant trees within heritage places</li> <li>Use of physical boundaries, such as hoarding and fencing to avoid accidental impacts</li> <li>Training and induction of staff regarding heritage values</li> <li>Regular inspection and monitoring of controls.</li> </ul>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>These measures will be undertaken in addition to conditions stipulated in any applicable heritage approvals, in consultation with Heritage Victoria, Council and/or the applicable land manager.</p>
CH7			<p>Archaeological Management Plans are prepared in accordance with heritage consents issued under the <i>Heritage Act 2017</i>, and in consultation with Heritage Victoria. Should detailed investigations be required due to uncovered archaeology, they will be undertaken in accordance with the <i>Guidelines for Investigating Historical Archaeological Artefacts and Sites, Heritage Victoria 2014</i>.</p> <p>A contingency protocol for the unexpected discovery of artefacts is included within the Heritage Management Plan and made available on all work sites.</p>
CH8			<p>Heritage interpretation material is developed for places in the VHR, VHI and other relevant sites of local significance. Material reflects the principles of the RPV Creative Strategy, the Urban Design Strategy, and other relevant council or heritage documentation. The material guides the delivery of interpretation as it relates to the Early Works construction activities, and considers sites such as the Main Entrance and Gates (Pillars and Fence) and the South African Soldiers Memorial.</p> <p>Development of interpretative material is undertaken in consultation with relevant stakeholders, including Heritage Victoria, councils, historical societies or interest groups, and where required will be guided by appropriately qualified heritage consultants.</p>
CH9			<p>The Heritage Management Plan has been developed and includes measures to avoid, minimise and mitigate impacts to the heritage fabric (including trees) in</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>sensitive areas such as within heritage places. Tree Protection Plans will be prepared where works have the potential to affect trees, providing control measures to safely manage works in the vicinity of trees (refer to Section 2.3).</p>
CH10			<p>Design is responsive to adjacent heritage places, including with regards to height, massing, form, façade articulation and materials. This detail is contained in the Development Plans which provide the final built form. Design of temporary above-ground structures is undertaken in consultation with Heritage Victoria, and in accordance with conditions in relevant heritage approvals.</p>
CH12			<p>The location of the new Intake Substation is no longer proposed to be close to the Langford Street pumping station. The new location is adjacent to the Arden Precinct, between the existing rail corridor, Moonee Ponds Creek and the CityLink toll road. As such, there will be no impact to the Langford Street pumping station.</p>
CH20			<p>Heritage interpretation material for the South African Soldiers Memorial has been developed in consultation with Heritage Victoria and City of Port Phillip Council, and in accordance with conditions in the associated heritage approvals. Detailed design of the Anzac Station is not part of Early Works, and is detailed in the respective Development Plan.</p>
CH23			<p>Where heritage street fabric and infrastructure is impacted by the Early Works, it will be conserved and/or reinstated. This is undertaken in accordance with statutory controls as detailed in heritage approvals</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
<b>Terrestrial Flora &amp; Fauna</b>	FF1-FF3	Where possible design and construction methods will be modified to avoid or minimise impacts to flora and fauna, this includes minimising the construction footprint along the Moonee Ponds Creek corridor and ensuring relevant works are informed by ecological assessments. Some indigenous planted native trees located within the works area maybe impacted, and commonly occurring urban species fauna may be encountered during tree removals. Protection measures for tree and terrestrial fauna management is outlined in the Ecology Management Plan. The measures identified in this Management Plan aim to minimise adverse impacts on native terrestrial and aquatic flora and fauna.	<p>(including heritage exemptions). Conservation and reconstruction requirements is agreed in consultation with Heritage Victoria and/or the applicable local council. CYP will conduct completion inspections of each works area to confirm that any reinstatement has been appropriately undertaken.</p> <p>Where native vegetation removal is unavoidable as part of Early Works, it will be undertaken in accordance with the requirements of the <i>Permitted Clearing of Native Vegetation – Biodiversity Assessment Guidelines</i> and in accordance with Clause 4.10.1 of the Incorporated Document. This is outlined in the Ecology Management Plan.</p> <p>FF1</p> <p>Weed management measures to reduce the likelihood of the spread of weeds during construction are captured as part of the Ecology Management Plan. Additional details will be included on relevant SEIPs, including known weedy infestations.</p> <p>FF2</p> <p>The Ecology Management Plan provides control measures developed to minimise impacts on native terrestrial and aquatic flora and fauna. Control measures will include conduct of pre-clear surveys to determine species and numbers of fauna present within trees or significant vegetation earmarked for removal, and staging of clearing to minimise impacts on fauna present. Protocols to manage fauna will be developed in consultation with the project arborist and fauna handling specialists to capture best practice fauna management, this includes contingency measures in the event that listed fauna species are unexpectedly discovered during works.</p> <p>FF3</p>



Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
<b>Greenhouse Gas</b>	GHG1-GHG2	CYP is preparing a Sustainability Management Plan (SMP) to address the RPV Sustainability Policy, the RPV Sustainability Management Plan, and to provide a tool for achieving the Infrastructure Sustainability Council of Australia (ISCA) targets, and targets set by RPV.	<p>The SMP has been developed to provide a tool to meet the sustainability targets set by RPV, including achieving the specified ratings under the ISCA's Infrastructure Sustainability Rating Tool. This will be achieved by various sustainability initiatives, including consideration of: materials used, waste disposal, energy use and supply chain. The Project seeks to achieve an 'Excellent' As Built rating under ISCA as measured against an agreed base case.</p>
			<p>GHG2 Monitoring will be undertaken during the works to identify shortfalls or opportunities for further improvements to sustainability initiatives. These are addressed in the SMP and design reports. Where necessary, management actions may be taken, such as delivery of sustainability training and awareness programs. The SMP also details processes for modelling, monitoring and reporting on greenhouse gas abatement measures, and the investigation and implementation (where appropriate) of renewable energy opportunities. The aim of the Early Works is to help contribute to the Project goal of an overall reduction in emissions on a base case footprint.</p>
<b>Ground Movement &amp; Land Stability</b>	GM2, GM4-GM6	Potential for ground movement impacts primarily relates to works associated with shaft construction and tunnelling, i.e. piling, excavating and rock breaking works, and tunnel-boring. Irrespective, relevant Early Works (including temporary works) will be designed to limit ground movement to within acceptability criteria. Condition surveys will commence during the Early Works phase of the project noting that it is the Main Works activities which have the potential to result in ground movement.	<p>GM2 Relevant works will be designed to limit ground movement to within acceptability criteria for vertical, horizontal, and angular deformation. The acceptability criteria will be agreed with the relevant land or asset owner, and will reflect the findings from the Minister's Assessment of the EES and more recent modelling and investigation.</p>
			<p>GM4 Outcomes of geological modelling and settlement investigation allows for the identification of potentially affected assets, which require a pre-construction</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>condition survey. Pre-construction condition surveys are used to guide design and the construction techniques employed. It should be noted that it is the Main Works activities which have the potential to result in ground movement, and consequently requirements for ground movement modelling (GM1 and GM3) relate to Main Works and shaft construction.</p> <p>A database of condition information and consultation outcomes for each potentially affected asset will be developed and maintained. All stakeholder consultation will be performed in accordance with the Community and Stakeholder Engagement Management Plan, including the process for sharing pre and post-construction conditions surveys.</p>
	GM5		<p>Construction techniques are adopted to limit ground movement to within acceptability criteria agreed in consultation with potentially affected land and asset owners, and will reflect the findings from the Minister's Assessment of the EES and more recent modelling and investigation.</p>
	GM6		<p>Where ground movement affects properties or assets, repair works will be conducted with consideration to pre-condition surveys, and in agreement with the relevant stakeholder.</p>
<b>Groundwater</b>	GW2, GW4-	<p>Potential for groundwater impacts primarily relates to works associated with shaft construction and tunnelling, i.e. piling, excavating and rock breaking works, and tunnel-boring. Irrespective, CYP will develop groundwater models to help understand the local environment and potential impacts from works on groundwater levels, flow and quality. Development and update of these models will reflect the construction</p>	<p>Groundwater models are developed to help understand the local environment and potential impacts of shaft construction and tunnelling on groundwater levels, flow and quality. The model informs design and refinement of construction techniques, and guides the development of the Groundwater Management Sub-Plan.</p> <p>The groundwater model is reviewed and independently audited consistent with the Australian Groundwater</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
		<p>program, noting that Early Works activities do not include any substantial excavation works.</p>	<p>Modelling Guidelines, and is updated as required to reflect outcomes of a comprehensive construction monitoring program to be detailed in the Sub-Plan.</p>
			<p>GW4 The Groundwater Management Sub-Plan, including details of disposal requirements used to obtain necessary Trade Waste Agreements from the relevant water retailers as and when required.</p>
<p><b>Land Use &amp; Planning</b></p>	<p>LU1; LU4</p>	<p>Given the scope of Early Works comprises no permanent above-ground infrastructure there is limited potential to impact on land use and planning matters, including with respect to permanent impacts on public open space. Potential impacts from temporary works, may include changes to access (including road closures), visual amenity impacts from site establishment and installation of hoarding, and considerations to public safety. Where relevant, these works will be designed and constructed in accordance with the existing open space master plans, the RPV Creative Strategy, the Green Growing Guide 2014, Crime Prevention Through Environmental Design (CPTED) principles, and in consultation with the relevant stakeholders, such as City of Melbourne, or University of Melbourne.</p>	<p>LU1 Urban design material is developed to guide design and construction in a manner which minimises impacts on land use, and considers Section 3.5 of the Urban Design Strategy and the RPV Creative Strategy. The potential impacts of Early Works on existing public open space is considered, with the aim of minimising footprints of temporary works area, maintaining safe public areas, and utilising existing disturbed areas where practical. The design and construction planning process will also give due consideration to the safety and aesthetics of elements such as the hoardings. The design process includes ongoing consultation with affected land managers or asset owners, local councils, UDAAP, and key stakeholders, in accordance with the Community and Stakeholder Engagement Management Plan.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
		<p>Further considerations of land use and urban design is provided in the draft Development Plans, which detail the final built form of the stations, and in doing so comprehensively address the Urban Design Strategy.</p>	<p>Urban design material is developed to address visual amenity impacts of elements such as construction sites and associated way-finding, hoardings, and heritage interpretation material. Material considers the relevant sections of the Urban Design Strategy, the Growing Green Guide, and the principles of the RPV Creative Strategy. Urban design material will be developed in consultation with the relevant councils and land managers, and will be referred to the UDAAP.</p>
<p><b>Landscape &amp; Visual</b></p>	<p>LV1-LV4</p>	<p>The most significant landscape and visual impact due to the Early Works scope is the removal of trees at Parkville and Domain. 56 trees will be removed along St Kilda Road, 19 along Domain Parklands, 13 in Albert Reserve, 55 along Grattan Street / within the University of Melbourne and 27 along University Square.</p> <p>Potential impacts from temporary works include; tree removal, visual amenity impacts from site establishment and installation of hoarding. Management of the visual amenity impacts of the above elements will be guided by Section 3.5 of the Urban Design Strategy and the principles of the RPV Creative Strategy. In addition, the scope of the Early Works comprises of no permanent above-ground infrastructure.</p> <p>Further considerations of land use and urban design is provided in the draft Development Plans, which detail the final built form of the stations, and in doing so comprehensively address the Urban Design Strategy.</p>	<p>Section 3.5 of the Urban Design Strategy details design solutions to manage construction impacts, and also provides direction on management of broader matters including reinstatement, traffic management, and principles of Crime Prevention Through Environmental Design (CPTED). These impacts are considered within project documentation including the Precinct Transport Management Plans (PTMP) and the Site Environment Implementation Plans (SEIPs).</p> <p>Consideration of the visual impacts of tree removal will be also addressed within the Ecology Management Plan, and visual impacts on heritage places are considered within the Heritage Management Plan.</p>
	<p>LV2</p>		<p>Urban design material is developed to address the relevant elements of the Urban Design Strategy, the Growing Green Guide, and the principles of the RPV Creative Strategy. Material will focus on management of temporary works areas (including elements such as hoarding design) and is outlined in the relevant Development Plans, developed in consultation with the relevant councils, land managers and the Office of Victorian Government Architect (OVGA).</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>LV3 Any night works required for the Project are to be undertaken in accordance with EPA Guidelines, council requirements and relevant standards. Measures to minimise light spillage are addressed in the SEIPs. Control measures will include, prioritising works to be undertaken during daylight hours, maintaining existing street lighting wherever possible, installing downward facing directional lighting or using diffused lighting sources, and, inspecting lighting setup and plans to minimise impacts to sensitive receptors including residential dwellings. This is addressed in the Air Quality, Dust &amp; Lighting Management Plan.</p>
			<p>LV4 The Communications and Stakeholder Engagement Management Plan sets out the process for considering the use of temporary landscaping during construction to minimise impacts to visual amenity. When considering use of temporary visual amenity solutions consideration will be given the sustainability and reuse opportunities it presents.</p>
<p><b>Noise &amp; Vibration</b></p>	<p>NV1; NV3- NV7-15; NV21</p>	<p>The Noise and Vibration Management Plans will be prepared to address key risks of noise and vibration potentially resulting from the Early Works activities. The objective of the Plan will be to minimise adverse noise and vibration effects on the amenity of nearby residents and businesses, as far as practicable during the construction of the Early Works. The Plan will be supported by noise and vibration modelling and assessment to be undertaken of relevant works within each precinct. The modelling will consider the guideline targets, location of sensitive receptors, construction method, equipment, and duration of various activities. The assessment will identify potential impacts to sensitive receptors, for which mitigation measures are required. The</p>	<p>NV1 The Noise and Vibration Management Plans has been prepared in accordance with the EPA <i>Publication 1254 Noise Control Guidelines</i>, and to address the requirements of the noise and vibration EPRs. This Sub-Plan is updated as required throughout the project to reflect changes to scope of works, construction methods, or outcomes of modelling.</p> <p>NV3 Noise and vibration predictive modelling is undertaken across each precinct to assess the potential works impacts, including impacts from airborne noise, ground borne noise, and ground borne vibration. The modelling considers the construction method, equipment, location and duration of various activities. Modelling is used to</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>assessment report will detail a comprehensive monitoring program, and contingency measures in the event that guideline targets are not achieved.</p> <p>A strategy for communication associated with noise and vibration impacts will be developed in consultation with relevant stakeholders, incorporating the associated complaints management procedures.</p>		<p>identify potential impacts to sensitive receptors, for which mitigation measures are required such as acoustic barriers or treatments. The outcomes of modelling is used to inform the Noise and Vibration Management Plans which is audited by the Independent Environmental Auditor.</p>
NV4			<p>The noise and vibration modelling and assessment is informed by monitoring results from the EES, and additional monitoring undertaken by CYP. The modelling assesses construction noise and vibration against the Guideline Targets described by the EPRs. Where exceedances occur, or are predicted to occur, management actions are implemented. The model will be calibrated as required following construction monitoring, and will be updated to reflect significant changes to construction method or scope.</p>
NV5			<p>A strategy for communication associated with noise and vibration impacts has been developed to guide communications relating to potential noise and vibration impacts. The strategy considers the outcomes of noise and vibration assessments, incorporates the complaints management procedure, and has been informed through consultation with relevant stakeholders including councils, the EPA and RMIT.</p>
NV6			<p>The Noise and Vibration Management Plan incorporates control measures for implementation where construction noise is predicted to, or does, exceed the <i>Guideline Noise Levels at residential locations</i> as specified in EPA Publication 1254.</p>
NV7			<p>The Noise and Vibration Management Plan incorporates control measures for implementation where construction noise is predicted to, or does, exceed internal noise</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>levels for relevant Sensitive Areas, and adversely impacts noise sensitive receptors within the Sensitive Areas. The noise assessment stake into consideration parameters such as the duration of the construction noise, the ambient noise levels, and specific acoustic requirements of the relevant Sensitive Area. Consultation with relevant stakeholders will further assist the assessments in determining the level of impact, and whether further control measures are required.</p>
NV8			<p>The Noise and Vibration Management Plan incorporates control measures to address instances where the <i>DIN4150 Guideline Targets for Structural Damage to Buildings</i> are predicted to be exceeded, or are not achieved. Control measures may include completion of pre-construction condition survey, monitoring of vibration-causing activities to confirm the findings of the predictive modelling, and changes to construction technique or equipment used to reduce vibration levels. Where the building in question is a heritage building, consultation with Heritage Victoria will be undertaken to determine suitable control measures.</p>
NV9			<p>Where modelling identifies the potential for works to impact on above ground utility assets and infrastructure, a condition assessment will be undertaken, the asset owner will be consulted, and vibration targets will be established. The Noise and Vibration Management Plan includes details of vibration monitoring requirements, which will aim to demonstrate compliance with the relevant vibration guideline targets, and will include details of remedial action where required.</p>
NV10			<p>Where modelling identifies the potential for works to impact on below ground infrastructure, a condition</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>assessment will be undertaken, the asset owner will be consulted, and vibration targets will be established. The Noise and Vibration Management Plan includes vibration monitoring program, which will aim to demonstrate compliance with the relevant vibration guideline targets, and will include recommended management actions where targets are not achieved.</p>
NV11			<p>The Noise and Vibration Management Plan outlines management actions to be implemented in cases where the guideline targets for continuous, intermittent, or impulsive vibration are not able to be achieved as per the locations specified. Control measures may include scheduling of construction activities to occur outside of certain hours, and changes to construction technique or equipment used to reduce vibration levels.</p>
NV12			<p>The Noise and Vibration Management Plan outlines management actions to be implemented in cases where equipment manufacturer specifications, agreed levels, or measured background levels are expected to be exceeded for vibration sensitive equipment. Consultation with relevant equipment owners or operators will be undertaken to determine the appropriate guideline targets. The Noise and Vibration Management Plan includes a construction monitoring program, which will incorporate continuous monitoring during certain activities, and establishment of an alert system.</p>
NV13			<p>The Noise and Vibration Management Plan I outlines management actions to be implemented in order to protect amenity at residences, sleeping areas in hospital wards, student accommodation and hotel rooms where the ground-borne (internal) noise guideline targets are exceeded, or predicted, to be exceeded during</p>



Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>construction. Where ground-borne noise has been determined to unreasonably limit usage of teaching spaces in educational institutions, consultation with the affected stakeholder will be undertaken to determine management actions to be implemented.</p>
		<p>NV15</p>	<p>The Noise and Vibration Management Plan outlines management actions to be implemented where relevant guideline targets for bio-resources and sensitive research are exceeded, or predicted to be exceeded, due to the Early Works at Parkville and CBD North. The Sub-Plan includes a construction monitoring program, and where necessary, will incorporate continuous noise monitoring in the vicinity of bio-resources and sensitive research.</p>
			<p>NV21</p> <p>The Noise and Vibration Management Plan has been developed in consultation with the EPA Victoria and the relevant councils. The Sub-Plan is informed by the modelling and assessment undertaken by the acoustic and vibration consultant, and in addition to the information detailed above, includes:</p> <ul style="list-style-type: none"> <li>• Identification of sensitive receptors and details of construction activities and equipment relevant to noise and vibration;</li> <li>• Details of adopted daytime management levels for airborne noise;</li> <li>• Control measures to address airborne noise impacts in accordance with EPA Publication 1254 Noise Control Guidelines, the NSW ICNG and the TfNSW Construction Noise Strategy;</li> <li>• Operational procedures and controls to minimise impacts from haulage noise, including limiting heavy</li> </ul>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
<b>Social &amp; Community</b>	SC1-4; SC6-8; SC10	<p>The Communications and Stakeholder Engagement Management Plan, precinct specific working documents and Sub-Plans for specific packages of work will address disruption to residents, landowners and businesses. The Plan provides the overarching framework for managing stakeholder impacts, and where suitable, has been developed in consultation with key stakeholders. Integrated into these documents are processes and measures for managing issues such as:</p> <ul style="list-style-type: none"> <li>• Communication and notification regarding works potentially impacting amenity, such as noise, vibration, air quality and tree removal</li> <li>• Communication and notification regarding utility disruptions</li> <li>• Communication and notification regarding major public events</li> <li>• Complaint management.</li> <li>• This Plan manages effects on the social fabric of the community during Early Works, including with regard to</li> </ul>	<p>vehicle movement to normal working hours and avoiding local roads;</p> <ul style="list-style-type: none"> <li>• Details of unavoidable works as assessed and agreed with the Independent Environmental Auditor.</li> <li>• The Sub-Plan will be supported by a noise and vibration communications strategy which will guide communications specifically relating to potential noise and vibration impacts.</li> </ul> <p>This Sub-Plan will be updated as required throughout the project to reflect changes to scope of works, construction methods, or outcomes of modelling.</p>
	SC1	<p>The Communications and Stakeholder Engagement Management Plan details the processes for managing temporary occupations, noting that the Early Works scope requires limited use of land other than that already acquired or leased by RPV through the broader project planning process. Where CYP requires additional areas for temporary occupation, i.e. for construction site or laydown purposes, it will be agreed with the relevant landholder.</p>	
	SC2	<p>A respite plan has been developed in accordance with RPV's Residential Impact Mitigation Guidelines. The respite plan takes into account potential impacts resulting from effects on amenity and loss of access. These matters are also be dealt with through precinct-specific Sub-Plans.</p>	

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>land changes, community cohesion, business functionality and access to services and facilities.</p> <p>Traffic impacts (for all modes of transport, including pedestrian and cycle traffic) are managed through the development and implementation of the TMP, PTMPs, and TMIPs, which addresses access to key public and private infrastructure, including health and education facilities.</p>	<p>SC4</p>	<p>The Communications and Stakeholder Engagement Management Plan has been developed in accordance with the RPV Community and Stakeholder Engagement Management Framework. This Plan provides an overarching approach to the engagement of affected stakeholders, strategies for communication and notification of Project activities, a complaints management procedure consistent with <i>Australian Standard 100002:2014 Guidelines for Complaint Management in Organisations</i>, and targeted mitigation measures to avoid or minimise impacts on residents and businesses. Supporting the Communications and Stakeholder Engagement Management Plan are precinct-specific Sub-Plans which are working documents detailing stakeholders and management actions relevant to each precinct.</p>
			<p>SC6</p> <p>The Communications and Stakeholder Engagement Management Plan and precinct-specific working documents include details on major public events. CYP has established relationships with councils and event organisers to facilitate provision of construction schedules and timely notification of works.</p>
			<p>SC7</p> <p>Edmund Herring Oval has been established as a site compound as part of the CYP Early Works. RPV have sought agreement from City of Melbourne to use this land, with a requirement to reinstatement following completion of works.</p>
			<p>SC8</p> <p>Based on the current Early Works scope the potential occupation of open space is limited to a western portion of University Square, a portion of the University of Melbourne in front of the main gates (both in Parkville), and Edmund Herring Oval, Domain. Where possible the</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			<p>amount of land used at each location will be minimised, with visual amenity impacts managed through the use of hoarding and other design elements. Consultation with relevant stakeholders, including the University of Melbourne, City of Melbourne, Heritage Victoria, will be undertaken throughout this process. Areas of public land will be reinstated following completion of works as agreed with the landowner/land manager and is not the subject of this Early Works Plan.</p>
	SC10		<p>The Communications and Stakeholder Engagement Management Plan outlines an engagement process for adjoining landholders. As part of this process written notice will be provided prior to the commencement of relevant Early Works. The notice will outline the nature of the works being undertaken, duration, any potential local impacts and contact details for further information.</p>
<b>Surface Water</b>	SW1-SW2	<p>A Surface Water Management Plan will be developed and provide control measures required to protect surface water quality, and waterways and waterway function. Key impacts from Early Works are likely to result from overland flows collecting sediments and pollutants, inappropriate discharge to stormwater, and floods or other emergency events (i.e. spills). The works are generally low impact from a water quality perspective, and at a distance from potentially sensitive receiving waters.</p>	<p>SW1 Project design is undertaken in consultation with the relevant council and asset-owner or operator. Where relevant, the project design considers flood modelling results, and integrates emergency flood management measures. As the majority of the Early Work comprises buried infrastructure, there is limited design consideration required. Methods for management and treatment of stormwater and overland flow during construction are outlined in the Surface Water Management Plan.</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
		<p>The Surface Water Management Plan will aim to prevent impacts to stormwater and other beneficial uses through implementation of best practice environmental measures (EPA Publication 480), including installing sediment controls and planning for and mitigating flood or emergency events (i.e. spills). Disposal of wastewater is a key consideration. The Sub-Plan documents any required contingency measures in the event of a pollution event to stormwater, including monitoring and reporting requirements in accordance with SEPP (Waters of Victoria).</p>	<p>SW2 Where required, Melbourne Water is consulted to make sure that flood plain storage capacity, flood level risks or flow velocities do not increase as a consequence of Early Works. The relevant parameters are to be incorporated into design. Liaison with water authorities to obtain relevant approvals has been undertaken in the event of required discharge of groundwater or other wastewaters to sewer, for example through a Trade Waste Agreement. Where necessary, WSUD measures and integrated water management principles are to be incorporated as part of the design process.</p>
<b>Transport</b>	T2 –T6; T10	<p>The Transport Management Plan (framework) (TMP) will provide a context for traffic and transport management across the site, with Precinct Transport Management Plans (PTMPs) and Transport Management Implementation Plans (TMIPs) developed to address each precinct, and reflecting requirements of the relevant EPRs (refer to Section 4.1.2). Together this documentation manages the effects of the works on the broader transport network during Early Works addressing impacts and interactions with rail, road, public transport, pedestrians, cyclists and other specialist users (including waste collection services and emergency services). Outcomes of stakeholder consultation undertaken by either RPV or CYP are captured within these plans, including through the Traffic and Transport Working Group (TTWG). Key stakeholders which have been consulted to inform development of the plans includes, Yarra Trams, City of Melbourne, waste transporters, Bicycle Victoria, Metro Trains, VicTrack and PTV.</p> <p>The Communications and Stakeholder Engagement Management Plan will link into the objectives of the Transport Management Plan. It will guide consultation with relevant</p>	<p>T2 The project TMP provides a context for traffic and transport management across the site, while the PTMPs are developed to minimise disruption to local land uses, traffic, car and bicycle parking, on-road public transport, pedestrians and bicycle movements. Major areas of disruption relevant to the Early Works scope include:</p> <ul style="list-style-type: none"> <li>• Childers Street and Ormond Street, (Western Portal)</li> <li>• Grattan Street and Barry Street (Parkville)</li> <li>• St Kilda Road and Albert Road (Domain).</li> </ul> <p>Monitoring of the impacts of traffic changes is undertaken by both CYP and RPV and will support ongoing network planning.</p>
	T3		<p>T3 The TMP and PTMPs provide the framework and localised precinct-specific measures to manage potential traffic and transport impacts across the Early Works, including those issues relating to road network management, truck movements, and parking. Relevant stakeholders have been, and will continue to be, consulted when developing traffic management measures, including the TTWG, road and public</p>

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
	<p>stakeholders related to cyclists and pedestrians to achieve connectivity during construction and stipulate communication standards and guidelines for re-routing and way-finding in the lead up to, and during works.</p>	<p>transport authorities, councils, waste transporters, emergency service authorities, and other potentially impacted businesses and residents.</p> <p>Sites where higher numbers of truck movements are anticipated will aim to minimise the use of local streets (where practical).</p> <p>Travel strategies are developed to support the workforce to minimise individual car use and maximise public transport use.</p>	
T4		<p>The TMP and PTMPs have been prepared to address potential impacts to public transport, including in relation to pedestrian and cycle connectivity and tram and bus networks. These documents have been developed in consultation with the relevant road management and public transport authorities, and the TTWG.</p>	
T5		<p>The TMP and PTMP outline transport management measures for cyclists and pedestrians, to maintain connectivity throughout Project construction. This includes provision of active controls and way-finding information to maintain safety, and avoiding potential conflicts between trucks, pedestrians and cyclists.</p>	
T6		<p>RPV has developed a Travel Demand Management Strategy to promote specific transport behaviour changes in response to road, bicycle and pedestrian paths closures/modifications and to reduce traffic congestion around construction sites.</p>	
T10		<p>Local councils and private waste management services are consulted throughout construction to manage changes to road access, and subsequent impacts to waste collection and storage. Businesses and residents will be informed of changes as described in the</p>	

Category	Applicable EPRs	Overarching Early Works Management Response	Specific Early Works Management EPR response
			Community and Stakeholder Engagement Management Plan and precinct-specific Sub-Plans.

### 5.3. URBAN DESIGN STRATEGY

The UDS has been developed to provide urban design guidance relating to the design, procurement and implementation of the Project in its entirety. Although the primary focus of the UDS is on the finished built form of the Project, it also provides guidance relevant to design of temporary works and broader construction impacts. Temporary design to be undertaken by CYP during Early Works includes design of hoardings across various precincts and establishment of site compounds (such as at Edmund Herring Oval). Whilst these elements are temporary in nature, in some cases they occupy a prominent position in the landscape and are in place for up to 5 years. Section 3.5 of the UDS describes aims, objectives and Design Guidelines related to managing temporary design and construction impacts of the Metro Tunnel project. The aim stated within this section of the UDS is to manage construction in a manner which minimises and mitigates adverse impacts on the valued fabric of the city and ongoing urban activities.

Table 13 summarises how CYP is addressing the Design Guidelines as outlined under Section 3.5 of the UDS for Early Works. Section 3.5 of the UDS details design solutions to manage construction impacts, however it provides direction on management of broader matters including reinstatement, traffic management, and principles of CPTED. Urban design material (including a hoardings strategy) will be developed by CYP to guide design and construction of elements such as hoardings, gantries, way-finding, and site compounds. This material will be developed in consultation with a range of stakeholders with the intent of facilitating wider engagement in the planning and design process. The material will also detail opportunities for heritage interpretation or enhancement and open space activation.

Development Plans have been prepared as required by the Incorporated Document, which further reflect and build on the requirements of the UDS. These Plans detail the incorporation of broader urban design principles into the permanent design elements of the project (i.e. stations, tunnels, entrances, connectivity to other transport) and are not relevant to Early Works.

Table 13: Integration of the UDS during the CYP Early Works

Design Guideline (refer to Section 3.5 of the UDS)	Early Works Response
<b>1. Maintain circulation and transport operations during the construction process.</b>	<p>CYP are developing a Transport Management Plan (TMP), Precinct Transport Management Plans (PTMPs), and Transport Management Implementation Plans (TMIPs) to address movement of all modes of transport, including cycle and pedestrian, around and within the Project as it relates to the Early Works (and beyond). These plans are being developed in consultation with VicRoads, City of Melbourne, City of Port Phillip, City of Stonnington, and Yarra Trams, who will be consulted throughout works via the TTWG.</p> <p>Mitigation measures identified/considered within these plans include:</p> <ul style="list-style-type: none"> <li>• Measures to redirect pedestrian and cyclist movements as necessary to allow for safe access around construction work sites, businesses and properties immediately adjacent to construction work sites</li> <li>• Provisions for universal access, amenity and safety</li> <li>• Provisions for emergency and maintenance access on nearby sites;</li> <li>• Timing and locality of public events</li> <li>• Provisions for temporary bus and tram stops, including shelters where appropriate</li> </ul> <p>Provisions for direction signage and temporary signs for businesses and properties which may be obscured by construction activities.</p>



Design Guideline (refer to Section 3.5 of the UDS)	Early Works Response
	<p>Impacts on local pedestrian traffic will be minimised through safe and accessible detours with way-finding signage, noting that planned staging and location of works has been carefully selected to minimise impacts on vehicular traffic.</p> <p>Where impacts are unavoidable, diversions have been identified and will be implemented and communicated for safe and efficient circulation of traffic, acknowledging that a broader Network Enhancement Program is presently being undertaken to help mitigate against impacts associated with temporary and permanent road modifications.</p> <p>All works are to be coordinated with local councils and key stakeholders to plan around major public events (refer to EPR SC6), and broader stakeholder engagement is to progress in accordance with the RPV Community and Stakeholder Engagement Management Framework.</p> <p>In the context of CYP Early Works and traffic considerations, key legacy items which require specific attention include impacts associated with traffic changes at Childers Street in Western Portal, closure of Grattan Street and Barry Street in Parkville, the long-term closure of Franklin Street and A'Beckett Street in CBD North, and the closures and access changes associated with works on St Kilda Road and Albert Road in Domain.</p>
<p><b>2. Protect the viability of, and amenity for, activities at and near construction work sites.</b></p>	<p>The principles of Crime Prevention Through Environmental Design will be applied when considering access routes, hoardings, site compounds and other works within public spaces during the construction period. This will be an important consideration in the context of planning for Early Works in areas where works are to interface with important pedestrian routes and/or significant areas of public open space (i.e. Parkville (along Grattan Street and around University Square), CBD North (in Franklin Street and A'Beckett Street), CBD South (City Square) and along St Kilda Road in Domain). Where possible, design features such as transparent fencing, lighting, way-finding signage and other security based initiatives are to be adopted around critical work sites to help manage public safety and improve the potential for the passive surveillance of public open space.</p> <p>In terms of monitoring potential amenity impacts during the delivery of Early Works, acoustic, vibration and air quality consultants have been engaged to prepare models (where required) and develop monitoring programs as part of managing potential noise, vibration and air quality impacts during construction activities. These measures will be captured within the CEMP and Sub-Plans prepared to help make sure that any potential impacts on amenity of the local area are minimised.</p>

**Design Guideline**

(refer to Section 3.5 of the UDS)

**Early Works Response**
**3. Protect features from damage.**

Key features impacted upon by CYP Early Works include significant numbers of trees in Parkville and Domain and important heritage sites situated within the public realm.

To help protect these features and mitigate against adverse impacts, a qualified arborist, archaeologist and heritage consultant will be used inform design requirements and, where necessary, oversee construction works.

Mitigation measures include the relocation of monuments and other sensitive features to help protect them from damage during construction works, and the development of appropriate plans prior to the commencement of works occurring within close proximity to sensitive features. This includes the preparation of Tree Protection Plans for works within close proximity to trees identified for retention, and consultation with Heritage Victoria in instances where works could impact upon sites listed on the Victorian Heritage Inventory and/or the Victorian Heritage Register (with documentation prepared as required in accordance with the heritage approval process).

Specific measures to protect or reuse features include the following:

Develop and implement Tree Protection Plans

Works within tree protection zones (including the pruning of trees) are to be supervised by a qualified arborist (refer to Section 3.3)

Excavation works within a registered heritage site are to be supervised by a qualified archaeologist

Monument removal and reinstatement/storage are to be directed and, where necessary, supervised by a qualified heritage consultant

Salvage and reuse of materials including blue stone, timber, and street furniture.

## 6. CYP COMMUNICATION AND STAKEHOLDER APPROACH

The communications engagement approach to the Early Works is based upon developing relationships at a local level before activities start to impact. It is about recognising and understanding that works which CYP is responsible for overseeing will have an impact on stakeholders and local communities, so it is critical that the right measures are in place to ensure those impacts are mitigated wherever possible.

The Project is a complex, multi-faceted, multi-site project with local, state and national stakeholder groups requiring a diverse range of communication and engagement needs. Having a consistent and agreed approach to stakeholder management will help maintain the credibility and authority of RPV and its project partners.

All CYP team members will interact closely with the Communications team, taking on board issues and concerns and working as a team to find solutions. This team approach will ensure that issues are appropriately managed and that there is a clear and shared understanding of major concerns and paths to resolution.

CYP staff will adhere to broad Principles of Engagement as identified within Table 14 when interacting with stakeholders.

Table 14: Principles of Engagement

Principle	Approach
<b>Relationship management</b>	Initially engage at senior levels within stakeholder organisations to understand their overarching business drivers and needs to establish relationships to support delivery of the project.
<b>No Surprises</b>	Engage early with stakeholders to gain an understanding of their interests, concerns and preferred outcomes for the project. Close the loop with stakeholders to demonstrate how feedback has been considered.
<b>Be open, honest, collaborative, fair and respectful</b>	Start engagement from an open and collaborative perspective. Treat stakeholders fairly and be respectful of their interests, desires and concerns. Really listen to their feedback.
<b>Be Prepared</b>	Before engaging with stakeholders, consider the best approach, anticipate queries or concerns, have clarity around what the stakeholder can reasonably influence and what will be decided by others, and prepare appropriate materials to help aid the conversation and achieve the desired outcome.
<b>Communicate early and with real value</b>	Provide as early as possible, relevant and detailed information about activities that will impact stakeholders and in a way that is respectful and empathetic.
<b>Keep records</b>	Maintaining accurate and timely records of stakeholder interactions will assist in ensuring we keep our commitments and our stakeholders do too.

A multi-layered approach to communications ensures a comprehensive methodology to the management of communications and stakeholder engagement for the early works project.

The overarching Community and Stakeholder Engagement Management Plan details the community and stakeholder activities that will be carried out by CYP. The plan describes the commitment to develop relationships with key community groups and stakeholders and work collaboratively with RPV's Communications and Stakeholder Engagement team.

It also outlines how we will ensure communications are clear, timely, transparent and achieve nominated notice periods. In line with this approach, the document will also reflect how we will work in line with relevant EPRs for managing impacts on the community including businesses and ensure it is in keeping with RPV's overarching framework for managing business impacts and residential mitigation measures. Compliance with EPRs relevant to the community and businesses will be reflected across communication activities.

Critical to the success of the communications approach will be to quickly gain an understanding of community and stakeholder triggers around issues, concerns and impacts and to continually modify and update the communications approach in-line with the changing landscape and needs of stakeholders and the community.

CYP will ensure that potential impacts are identified and, where possible, mitigated, works will be communicated in advance, and specific mitigation measures will be employed in-line with the Community and Stakeholder Engagement Management Plan and the applicable EPRs.

To successfully deliver communications externally, an internal project education approach ensures all Project staff and subcontractors remain aware of the importance of stakeholder and community relations. Internal consultation and communication will include:

- Project induction – as ambassadors for the project all members of the project team and contractors working on the project are required to undertake compulsory induction training, which includes community relations awareness
- Participation in construction precinct meetings – enables the Communications team to discuss key construction issues, impacts and mitigation strategies and agree with the broader team on risk mitigation strategies and communications and engagement actions
- Participation in toolbox meetings – provides an opportunity to educate contractors and sub-contractors on the importance of stakeholder engagement; current issues facing stakeholders and the community and to reinforce the project expectations in community consultation
- One-on-one meetings – individual meetings to inform, discuss and resolve Project related issues which may impact stakeholders or the community and agree an approach to reduce impacts including use of way-finding signs for businesses etc
- Information sharing – share Project information across Precincts with staff, contractors and sub-contractors and continue to highlight the importance of positive community and stakeholder engagement
- Work packs – inclusion of Communications check-list in work packs to help make sure that no work commences until the relevant notification periods have been met
- Regular project report – will highlight communication and engagement activities, issues and achievements and will be prepared weekly and monthly.

## 6.1. EARLY WORKS PLAN CONSULTATION PROCESS

As part of the approval of the Metro Tunnel Project, the Minister for Planning directed that the Early Works Plan must undergo consultation with key stakeholders prior to the submission of the final plan to the Minister for Planning for approval.

A Consultation Summary Report (dated 22 December 2017) has been prepared to capture feedback received in response to the CYP Early Works Plan (which was released for Public Display from 29 November 2017), and to provide a summary of consultation and response to issues raised during consultation (in accordance with Clause 4.9.5 of the Incorporated Document). In responding to the mandatory obligations detailed under Clause 4.9.4, CYP undertook the following consultation steps in the context of CYP's Draft Early Works Plan:

- Provided links to electronic copies of the Draft Early Works Plan to prescribed stakeholders and key stakeholders outlining how comments could be lodged and offering "Early Works Plan" meetings, specifically:
  - Relevant Councils
  - Heritage Victoria
  - EPA
  - Affected utility service providers
  - Roads corporation, Public Transport Development Authority (and other members of the TTWG, Melbourne Water and Heritage Victoria

- Where relevant, other key stakeholders including University of Melbourne, RMIT, Melbourne Health, Graduate House, The Shrine of Remembrance, Melbourne Grammar School, The Westin Hotel, St Paul's Cathedral, and the Urban Design and Architectural Advice Panel (UDAAP).
- Published a copy CYP's Draft Early Works Plan on the Metro Tunnel website 'Have Your Say Early Works Plan' (<http://metrounnel.vic.gov.au/planning/have-your-say>) for public inspection and comment between 27th November and 15th December 2017. The website set out details about the entity and contact details to which written comments could be directed during that time. The website also specified the time and manner for the making of written comments.
- Letterbox dropped 32,500 residents
- Prepared (and directed stakeholders towards) an online comment form to help capture and collate feedback
- Printed and displayed hard copies of the Plan in the office of relevant Councils
- Placed a public advertisement in The Age newspaper on the day the CYP Draft Early Works Plan was made publicly available
- Sent out email notifications to stakeholders registered for project related updates
- Published information on twitter and other social media platforms advising stakeholders as to where copies of the Plan could be reviewed
- Held meetings, workshops and presentations with prescribed stakeholders and key stakeholders as requested
- Held three Community Reference Group meetings
- Held 11 Community Information Sessions over 8 venues during the Public Display Period.

### 6.1.1. CONSULTATION FOR EARLY WORKS PLAN MINOR AMENDMENT REVISION C

As outlined in the Incorporated Document, an Early Works Plan may be amended from time to time, with the approval of the Minister for Planning. The Minister must require an application for approval of an amendment to an Early Works Plan to comply with the requirements and clauses outlined within the Incorporated Document.

#### Amendment May 2018

CYP are altering the Early Works Plan based on proposed works for the Western Portal and Eastern Portal. CYP deem that the proposed amendments to the Early Works Plan are minor and therefore require only targeted consultation with key impacted stakeholders, namely the respective council and the local community. This process ensures that any person who may suffer a material detriment has been sufficiently consulted in respect of the amendment, prior to approval from the Minister for Planning.

CYP have undertaken the following consultation in regards the proposed amendments:

- Western Portal Early Works site layout showing reduction in construction boundary along Childers Street and installation of a guide wall and sheet piles has been:
  - Sent to a group of Kensington residents and members of the Kensington Association on 13/04. The community were encouraged to circulate within their own internal networks
  - Sent to the Lloyd Street Business Estate on 24/04
  - Presented at the Western Portal Development Plan community information sessions, to talk to traffic-related questions. These community information sessions were held on 14/04 and 18/04
  - Included within the Kensington and North Melbourne Community Reference Group presentation (03/05).
- Eastern Portal Early Works site layout showing an increase in the construction boundary and installation of services has been:

- Displayed at the Eastern Portal community information sessions held on 16/04 and 17/04
- Provided to the City of Stonnington for comment, and discussed during the monthly coordination workshop with the council.

Feedback from the community has been limited, however there has been a focus on questions surrounding the impact to parking, truck numbers and routes, as well as the timing of works. CYP do not deem it necessary to conduct a 15-business day public consultation period, due to the limited nature of the proposed amendments.

#### Amendment November 2019

CYP are altering the Early Works Plan based on proposed works for the Intake Substation. CYP deem that the proposed amendments to the Early Works Plan are minor and therefore require only targeted consultation with key impacted stakeholders, namely City of Melbourne. This process ensures that any person who may suffer a material detriment has been sufficiently consulted in respect of the amendment, prior to approval from the Minister for Planning.

CYP have undertaken the following consultation in regards the proposed amendments:

- Intake Substation Early Works site layout and proposed construction activities has been:
  - Presented to Heritage Victoria on 18/10/19, during the weekly Built Heritage meeting
  - Presented to Bicycle Network on 16/10/19, to talk through the construction-related impacts to the Moonee Ponds Creek trail
  - Presented to City of Melbourne on 16/10/19, to talk through the proposed works in conjunction with the Moonee Ponds Creek Strategic Opportunities Plan
  - Presented to the Arden Communications Coordination Working Group on 29/10/19, consisting of Victorian Planning Authority (VPA) and Melbourne Water
  - Presented to Arden & Parkville Community Reference Group 01/11/19, to discuss any key from the community
  - Discussed key issues in depth at a workshop with Melbourne Water, City of Melbourne and the Victorian Planning Authority on 08/11/19
  - Presented to North & West Melbourne Association on 19/11/19.

Feedback from various stakeholders has been limited, however relevant changes have been incorporated into the amended Early Works Plan. Key concerns have focused on the tree removals and associated cable routing works. Ongoing consultation will take place with key stakeholders regarding these works, to ensure that concerns are addressed through detailed design.

CYP do not deem it necessary to conduct a 15-business day public consultation period, due to the limited nature of the proposed amendments.

## 7. CHANGE MANAGEMENT

As detailed under Clause 4.9.9 of the Incorporated Document, an Early Works Plan may be prepared and approved in stages or parts and may be amended from time to time with the approval of the Minister for Planning. Where change is sought that is not contemplated within this Early Works Plan, then the Early Works Plan will need to be amended in accordance with the Clause 4.9.9 process.

As detailed within the Incorporated Document, an amendment made under the Clause 4.9.9 process must comply with the requirements of clauses 4.9.3, 4.9.4, 4.9.5, 4.9.6 unless, in the opinion of the Minister:

- a. the proposed amendment:
  - i. does not result in a material detriment to any person; or
  - ii. a person who may suffer a material detriment as a result of the Minister's approval of the amendment has already been sufficiently consulted in respect of the amendment; and
- b. any amendment does not involve any change to an approved Environmental Performance Requirement.

## 8. CONCLUSION

This Early Works Plan has been prepared to address the requirements of the *Melbourne Metro Rail Project Incorporated Document* (dated May 2017).

Consistent with the requirements of Clause 4.9 of the Incorporated Document, the Early Works Plan establishes the context for, and provides a description of, CYP Early Works to provide clear understanding of activities that need to be undertaken in advance of Main Works.

To help delineate between activities and provide clarity in the context of the Early Works Plan, three works phases have been attributed to the delivery of Early Works:

- Enabling Works
- Preparatory Works
- Early Works.

In accordance with the rationale detailed under this Early Works Plan, the plan has been prepared to specifically address the scope of works associated with the delivery of Early Works; acknowledging that whilst Enabling Works and Preparatory Works do not require statutory approval under this Early Works Plan, it is CYP’s responsibility to deliver all works in accordance with regulatory, statutory and contractual obligations.

Early Works are referred to under Clause 4.9 of the Incorporated Document and are intended to commence prior to the approval of Development Plans but after the approval of the EMF (including EPRs) and UDS. They include works such as:

- Utility service relocation and protection of utility assets;
- Site preparation works, including demolition works, removal or relocation of trees and monuments, minor road / transport network changes; and
- Works for construction of shafts at CBD North and CBD South Precincts (noting that shaft construction is not part of the CYP Early Works scope in this Early Works Plan).

This Early Works Plan also identifies the environmental, cultural heritage and social controls applicable to the delivery of Early Works, including providing a summary of the EMF process and outlining how the delivery of Early Works will be performed in accordance with the requirements of the applicable EPRs. In the context of Early Works, the Plan also outlines how the applicable works will be managed in accordance with relevant aspects of the UDS, and provides a summary of the approach taken in terms of stakeholder consultation. Once approved, this Early Works Plan will allow for Early Works to commence in accordance with the obligations identified/summarised within the plan.

Key matters identified and addressed in this version of the CYP EWP include:

Key Matter	CYP Response
<b>Intake Substation</b>	<p>Inclusion of the Intake Substation planned Early Works.</p> <p>Consultation undertaken with various stakeholders (refer to Section 6.1.1) regarding the Early Works for the Intake Substation. This consultation has included:</p> <ul style="list-style-type: none"> <li>• Heritage Victoria</li> <li>• City of Melbourne</li> <li>• Melbourne Water</li> <li>• Victorian Planning Authority</li> <li>• Bicycle Network</li> <li>• Arden Communications Coordination Working Group</li> <li>• Arden &amp; Parkville Community Reference Group</li> <li>• North &amp; West Melbourne Association.</li> </ul>





# APPENDICES

# APPENDIX A

## SITE LAYOUT PLANS & TREE TABLES

Western Portal

Intake Substation

Arden Precinct

Parkville Precinct

CBD North Precinct

CBD South Precinct

Domain Precinct



- Legend**
- Trees
  - ▨ Indic
  - ▨ Dem
  - ▨ Site
  - ▨ Road
  - ▨ Pole
  - ▨ Proje

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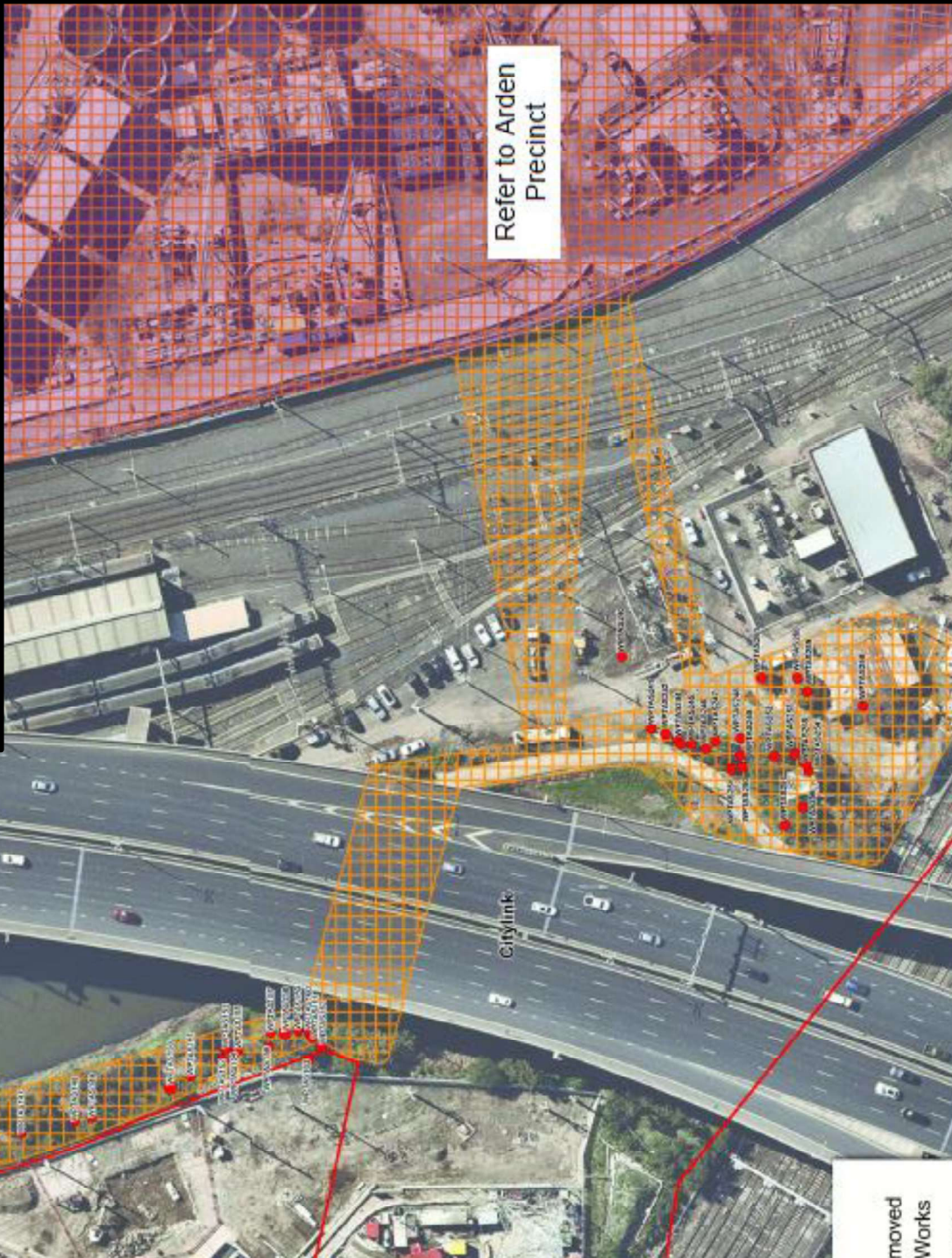
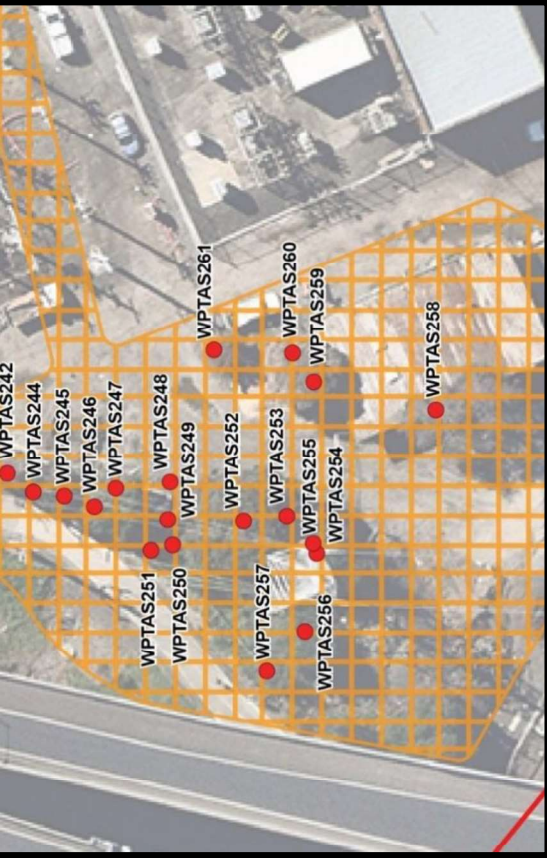
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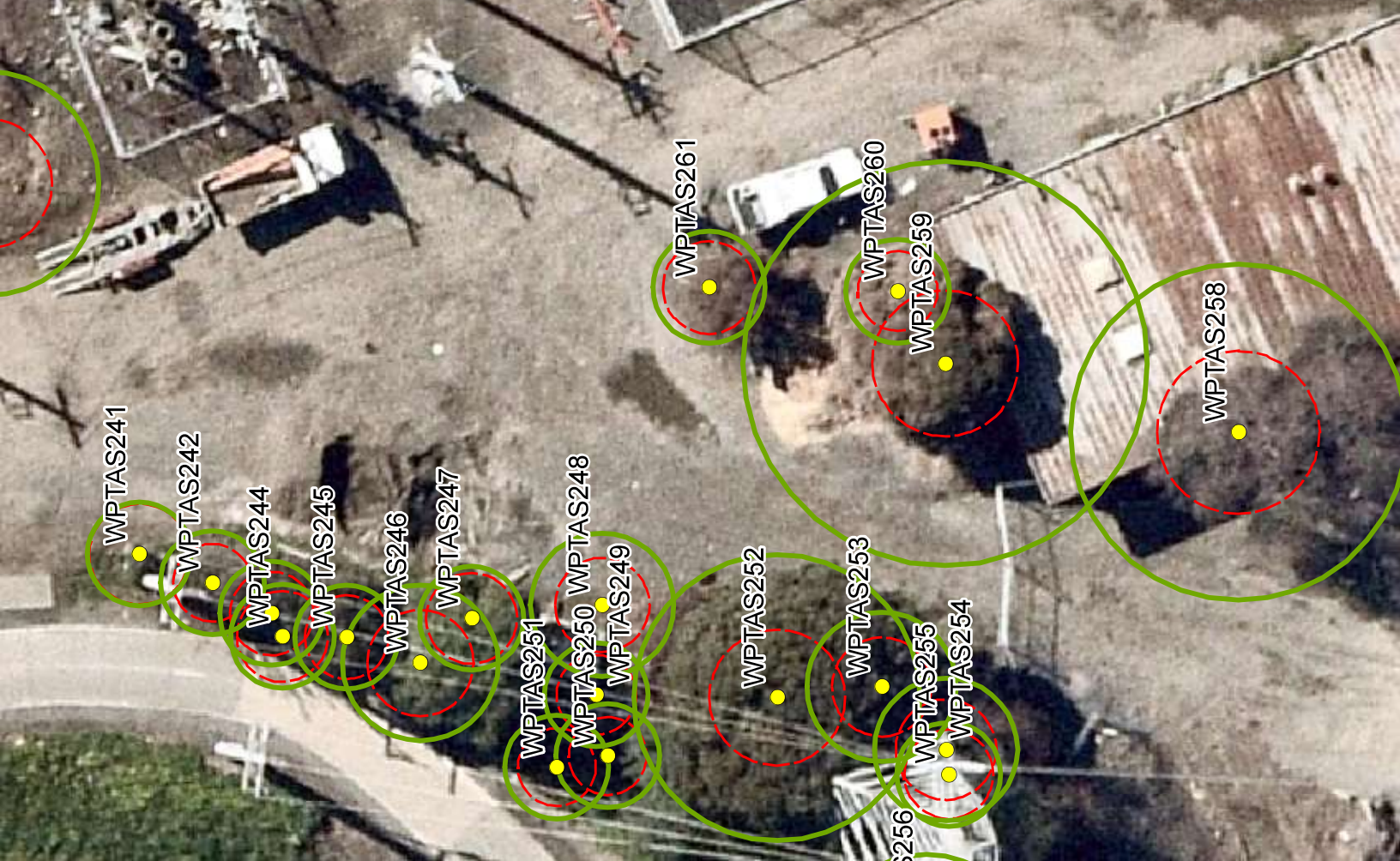


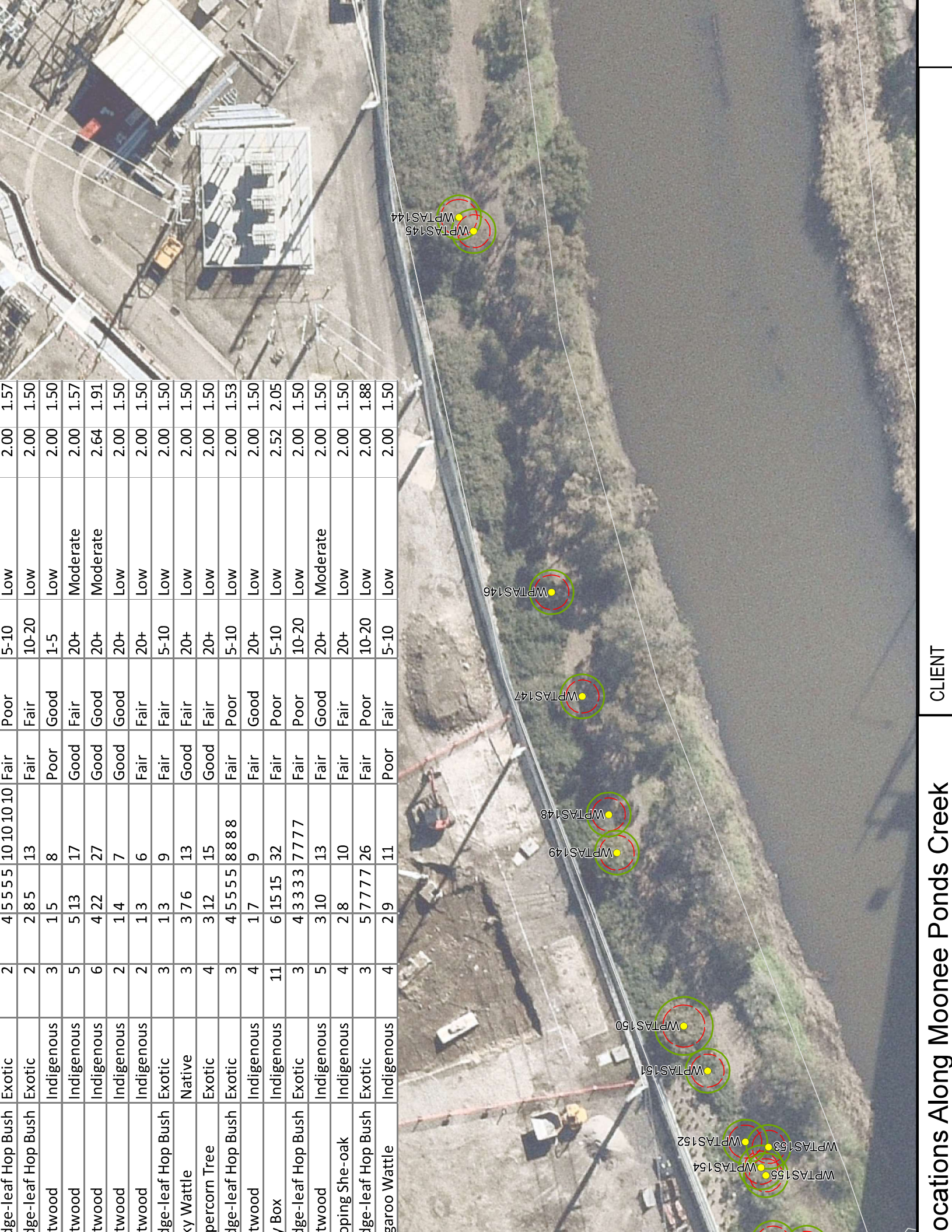
## Western Portal Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
1	W048	Childers Street	River She-oak (Casuarina cunninghamiana)	Site Establishment and Hoarding
2	W050	Childers Street	River She-oak (Casuarina cunninghamiana)	Site Establishment and Hoarding
3	W001	Childers Street	Argyle Apple (Eucalyptus cinerea)	Site Establishment and Hoarding
4	W041	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
5	W042	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
6	W043	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
7	W044	Childers Street	Spotted Gum (Corymbia maculata)	Site Establishment and Hoarding
8	W045	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
9	W046	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
10	W047	Childers Street	Water Gum (Tristaniopsis laurina)	Site Establishment and Hoarding
11	W049	Childers Street	River She-oak (Casuarina cunninghamiana)	Site Establishment and Hoarding
12	W051	Childers Street	River She-oak (Casuarina cunninghamiana)	Site Establishment and Hoarding
13	W058	Ormond Street	Brush Box (Lophostemon confertus)	Road / Transport Network Changes
14	W060	Ormond Street	Illawarra Flame Tree (Brachychiton acerifolius)	Road / Transport Network Changes
15	WP001	135 Ormond Street	Willow Myrtle (Agonis flexuosa)	Site Establishment and Hoarding
16	WP002	135 Ormond Street	Liquidamber (Liquidambar styraciflua)	Site Establishment and Hoarding
17	WP003	133 Ormond Street	Silky Oak (Grevillea robusta)	Site Establishment and Hoarding
18	WP006	133 Ormond Street	Red Spotted Gum (Eucalyptus mannifera)	Site Establishment and Hoarding



WPTAS247	<i>Acacia implexa</i>	Lightwood	Indigenous	3	2	986	22	Fair
WPTAS248	<i>Schinus molle</i>	Peppercorn Tree	Exotic	4	3	17 10 8 8	18 12 10 10	Dead
WPTAS249	<i>Schinus molle</i>	Peppercorn Tree	Exotic	3	2	8	16	Poor
WPTAS250	<i>Schinus molle</i>	Peppercorn Tree	Exotic	3	2	11	15	Fair
WPTAS251	<i>Schinus molle</i>	Peppercorn Tree	Exotic	3	2	7	13	Fair
WPTAS252	<i>Eucalyptus conferruminata</i>	Bushy Yate	Native	8	9	46	57	Fair
WPTAS253	<i>Schinus molle</i>	Peppercorn Tree	Exotic	8	5	24	27	Poor
WPTAS254	<i>Schinus molle</i>	Peppercorn Tree	Exotic	8	5	23	28	Poor
WPTAS255	<i>Schinus molle</i>	Peppercorn Tree	Exotic	4	3	14	21	Poor
WPTAS256	<i>Schinus molle</i>	Peppercorn Tree	Exotic	5	5	21 18 18 14	37	Fair
WPTAS257	<i>Schinus molle</i>	Peppercorn Tree	Exotic	3	2	10 9	15 14	Fair
WPTAS258	<i>Schinus molle</i>	Peppercorn Tree	Exotic	8	10	38 38	88	Dead
WPTAS259	<i>Melaleuca linariifolia</i>	Snow in Summer	Native	5	8	65	68	Poor
WPTAS260	<i>Schinus molle</i>	Peppercorn Tree	Exotic	3	4	13	16	Dead
WPTAS261	<i>Schinus molle</i>	Peppercorn Tree	Exotic	4	3	18	23	Dead





Large-leaf Hop Bush	Exotic	2	4	5	5	5	10	10	10	10	Fair	Poor	5-10	Low	2.00	1.57
Large-leaf Hop Bush	Exotic	2	2	8	5	13	13				Fair	Fair	10-20	Low	2.00	1.50
twood	Indigenous	3	1	1	5	8					Poor	Good	1-5	Low	2.00	1.50
twood	Indigenous	5	5	13	17						Good	Fair	20+	Moderate	2.00	1.57
twood	Indigenous	6	4	22	27						Good	Good	20+	Moderate	2.64	1.91
twood	Indigenous	2	1	4	7						Good	Good	20+	Low	2.00	1.50
twood	Indigenous	2	1	3	6						Fair	Fair	20+	Low	2.00	1.50
Large-leaf Hop Bush	Exotic	3	1	3	9						Fair	Fair	5-10	Low	2.00	1.50
ky Wattle	Native	3	3	7	13						Good	Fair	20+	Low	2.00	1.50
percorn Tree	Exotic	4	3	12	15						Good	Fair	20+	Low	2.00	1.50
Large-leaf Hop Bush	Exotic	3	4	5	5	5	8	8	8	8	Fair	Poor	5-10	Low	2.00	1.53
twood	Indigenous	4	1	7	9						Fair	Good	20+	Low	2.00	1.50
/ Box	Indigenous	11	6	15	32						Fair	Poor	5-10	Low	2.52	2.05
Large-leaf Hop Bush	Exotic	3	4	3	3	3	7	7	7	7	Fair	Poor	10-20	Low	2.00	1.50
twood	Indigenous	5	3	10	13						Fair	Good	20+	Moderate	2.00	1.50
opping She-oak	Indigenous	4	2	8	10						Fair	Fair	20+	Low	2.00	1.50
Large-leaf Hop Bush	Exotic	3	5	7	7	7	26				Fair	Poor	10-20	Low	2.00	1.88
garoo Wattle	Indigenous	4	2	9	11						Poor	Fair	5-10	Low	2.00	1.50

WPTAS144  
WPTAS145

WPTAS146

WPTAS147

WPTAS148  
WPTAS149

WPTAS150  
WPTAS151

WPTAS152  
WPTAS153  
WPTAS154  
WPTAS155



- Legend**
- Tree:
  - Site:
  - Share:
  - Project:

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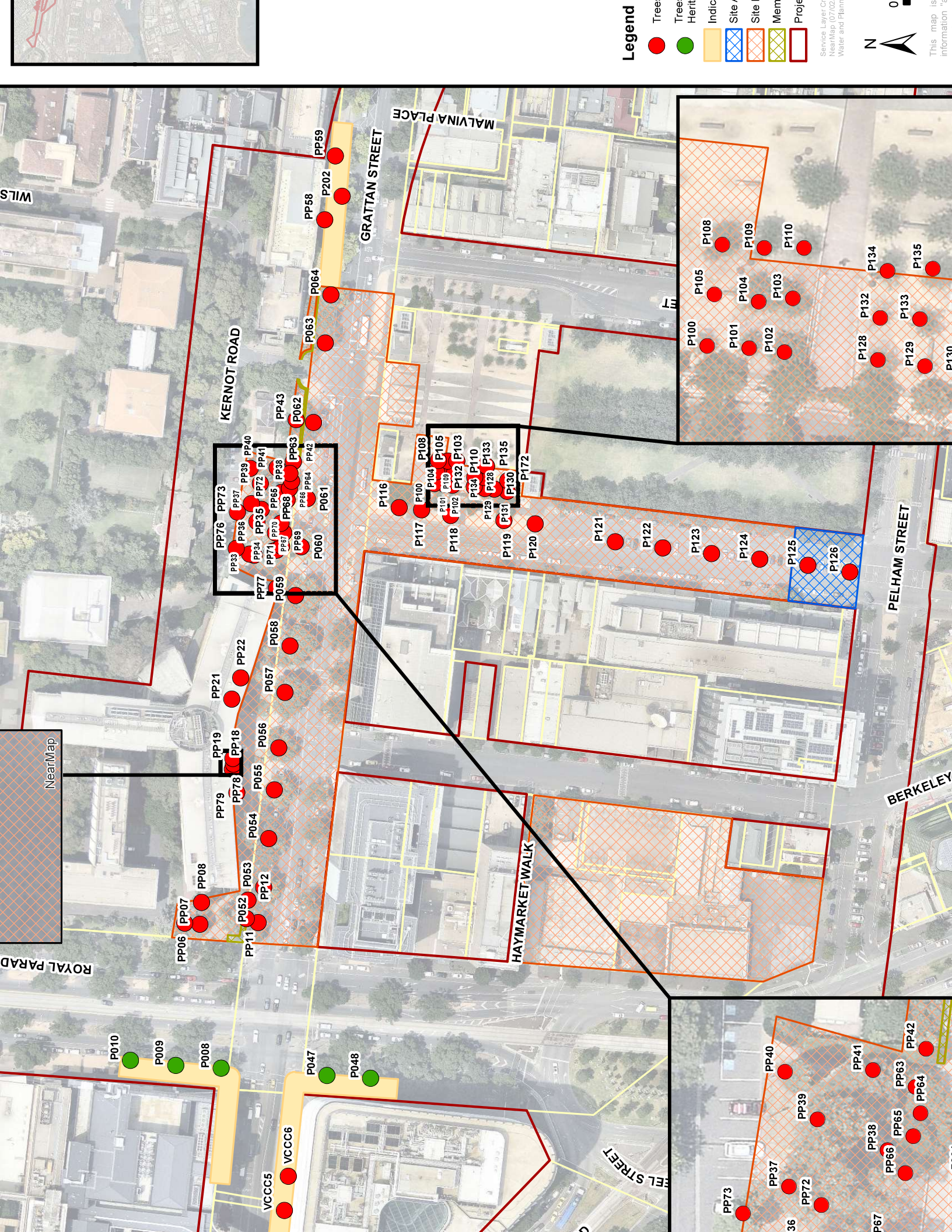


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## Arden Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
1	AP003	VicTrack land - Arden Sidings	Peppercorn Tree (Schinus areira)	Site Establishment and Hoarding
2	AP017	VicTrack land - Arden Sidings	Unknown	Site Establishment and Hoarding
3	AP015	VicTrack land - Arden Sidings	Lombardy Poplar (Populus nigra)	Site Establishment and Hoarding



**Legend**

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- Tree
- Herit
- Indic
- Site
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WILKS

MALVINA PLACE

GRATTAN STREET

KERNOT ROAD

PELHAM STREET

BERKELEY

HAYMARKET WALK

PEL STREET

ROYAL PARAD

P010

P009

P008

VCCC5

VCCC6

P047

P048

PP06

PP07

PP08

PP11

PP12

PP13

PP19

PP21

PP22

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NearMap

## Parkville Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during CYP Early Works
1	P008	Royal Parade	Elm (Ulmus sp.)	Service locations
2	P052	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
3	P053	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
4	P054	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
5	P055	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
6	P056	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
7	P057	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
8	P058	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
9	P059	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
10	P060	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
11	P061	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
12	P131	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
13	P130	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
14	P129	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
15	P128	University Square	Crabapple (Malus sp.)	Site Access
16	P102	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
17	P101	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
18	P100	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
19	P172	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
20	P133	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
21	P132	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
22	P104	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
23	P103	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
24	P105	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
25	P134	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
26	P135	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding

No	Tree ID	Location	Tree Type	Reason for Removal during CYP Early Works
27	P109	University Square	Plum (Prunus sp.)	Establishment of Site Access
28	P110	University Square	Plum (Prunus sp.)	Establishment of Site Access
29	P108	University Square	Plum (Prunus sp.)	Site Establishment and Hoarding
30	P062	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
31	PP40	UoM excl. Gatekeepers	Italian Cypress (Cupressus sempervirens)	Site Establishment and Hoarding
32	PP41	UoM excl. Gatekeepers	Prickly-leaved Paperbark (Melaleuca styphelioides)	Site Establishment and Hoarding
33	P048	Royal Parade	Elm (Ulmus sp.)	Service locations
34	P010	Royal Parade	Elm (Ulmus sp.)	Service locations
35	PP42	Gatekeepers Cottage	Lilly Pilly (Syzygium smithii)	Site Establishment and Hoarding
36	PP43	Gatekeepers Cottage	English Elm (Ulmus procera)	Site Establishment and Hoarding
37	P009	Royal Parade	Elm (Ulmus sp.)	Service locations
38	PP07	UoM excl. Gatekeepers	Brush Box (Lophostemon confertus)	Site Establishment and Hoarding
39	PP06	UoM excl. Gatekeepers	Brush Box (Lophostemon confertus)	Site Establishment and Hoarding
40	PP11	UoM excl. Gatekeepers	English Elm (Ulmus procera)	Site Establishment and Hoarding
41	PP08	UoM excl. Gatekeepers	Lombardy Poplar (Populus nigra)	Site Establishment and Hoarding
42	PP12	UoM excl. Gatekeepers	English Elm (Ulmus procera)	Site Establishment and Hoarding
43	PP79	UoM excl. Gatekeepers	Plum (Prunus sp.)	Site Establishment and Hoarding
44	PP18	UoM excl. Gatekeepers	Washington Thorn (Crataegus phaenopyrum)	Site Establishment and Hoarding
45	PP78	UoM excl. Gatekeepers	Witch Hazel (Hamamelis sp.)	Site Establishment and Hoarding
46	PP19	UoM excl. Gatekeepers	White Mulberry (Morus alba)	Site Establishment and Hoarding
47	PP21	UoM excl. Gatekeepers	Washington Thorn (Crataegus phaenopyrum)	Site Establishment and Hoarding
48	PP22	UoM excl. Gatekeepers	Japanese Maple (Acer palmatum)	Site Establishment and Hoarding
49	PP77	UoM excl. Gatekeepers	Azara (Azara microphylla)	Site Establishment and Hoarding

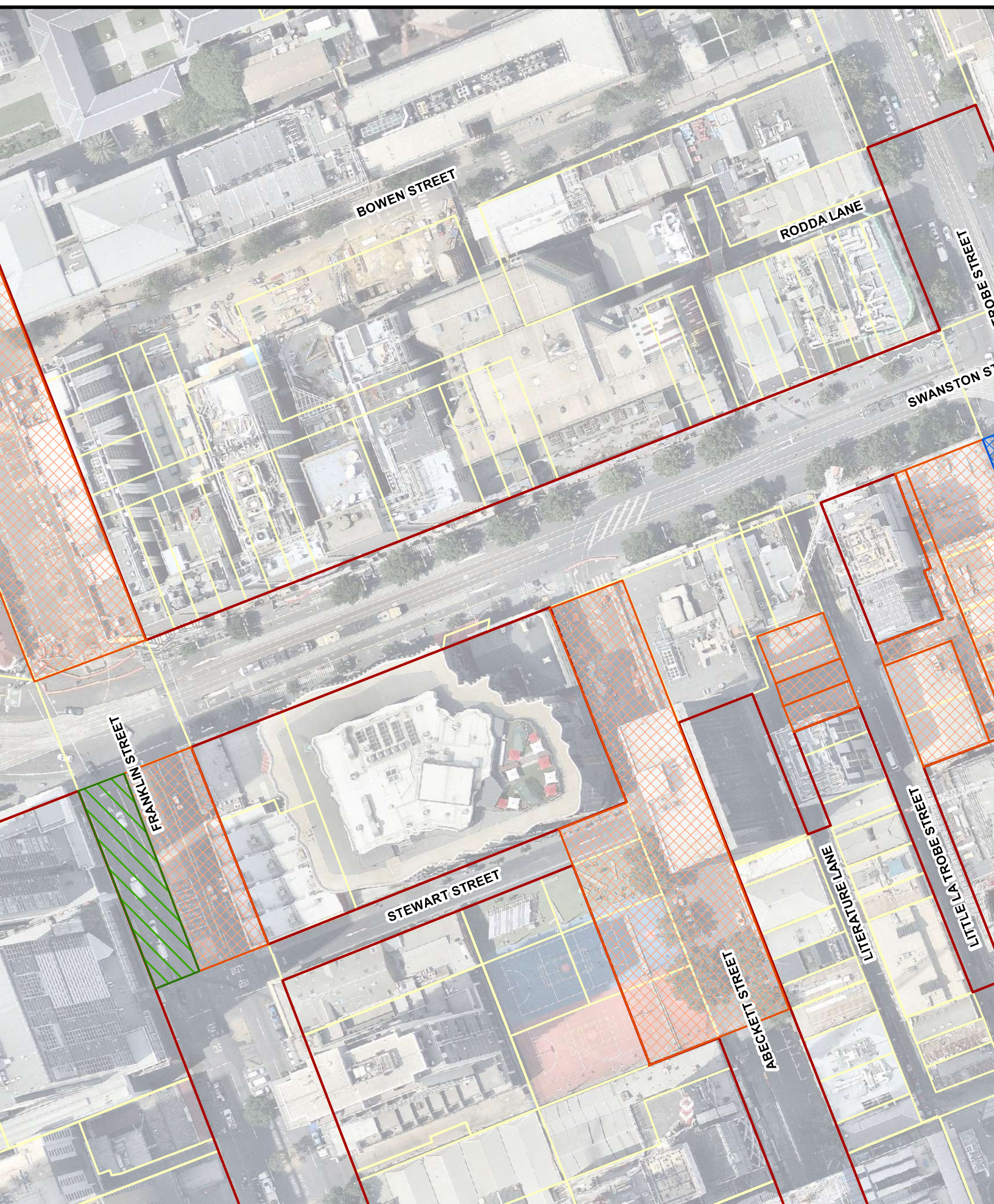
No	Tree ID	Location	Tree Type	Reason for Removal during CYP Early Works
50	P126	Barry Street	Sydney Red Gum (Angophora costata)	Site Establishment and Hoarding
51	P125	Barry Street	Horse Chestnut (Aesculus hippocastanum)	Site Establishment and Hoarding
52	P124	Barry Street	Horse Chestnut (Aesculus hippocastanum)	Site Establishment and Hoarding
53	PP71	UoM excl. Gatekeepers	Pine (Pinus sp.)	Site Establishment and Hoarding
54	PP33	UoM excl. Gatekeepers	Coast Redwood (Sequoia sempervirens)	Site Establishment and Hoarding
55	P123	Barry Street	Horse Chestnut (Aesculus hippocastanum)	Site Establishment and Hoarding
56	PP34	UoM excl. Gatekeepers	Patula Pine (Pinus canariensis)	Site Establishment and Hoarding
57	PP70	UoM excl. Gatekeepers	Funeral Cypress (Cupressus funebris)	Site Establishment and Hoarding
58	PP76	UoM excl. Gatekeepers	Swiss Mountain Pine (Pinus mugo)	Site Establishment and Hoarding
59	P122	Barry Street	Red Horse Chestnut (Aesculus carnea)	Site Establishment and Hoarding
60	PP69	UoM excl. Gatekeepers	Lilly Pilly (Syzygium smithii)	Service locations
61	P121	Barry Street	Horse Chestnut (Aesculus hippocastanum)	Site Establishment and Hoarding
62	PP35	UoM excl. Gatekeepers	Patula Pine (Pinus canariensis)	Site Establishment and Hoarding
63	PP68	UoM excl. Gatekeepers	European Larch (Larix decidua)	Service locations
64	P120	University Square	Deodar (Cedrus deodara)	Site Establishment and Hoarding
65	PP67	UoM excl. Gatekeepers	Pine (Pinus sp.)	Site Establishment and Hoarding
66	PP36	UoM excl. Gatekeepers	Southern Mahogany (Eucalyptus botryoides)	Site Establishment and Hoarding
67	P119	University Square	Blue Atlas Cedar (Cedrus atlantica)	Site Establishment and Hoarding
68	P118	University Square	Blue Atlas Cedar (Cedrus atlantica)	Site Establishment and Hoarding
69	PP73	UoM excl. Gatekeepers	Bhutan Cypress (Cupressus torulosa)	Site Establishment and Hoarding
70	P117	University Square	Blue Atlas Cedar (Cedrus atlantica)	Site Establishment and Hoarding

No	Tree ID	Location	Tree Type	Reason for Removal during CYP Early Works
71	PP72	UoM excl. Gatekeepers	Hoop Pine (Araucaria cunninghamii)	Site Establishment and Hoarding
72	P116	University Square	Crabapple (Malus sp.)	Site Establishment and Hoarding
73	PP37	UoM excl. Gatekeepers	Southern Mahogany (Eucalyptus botryoides)	Site Establishment and Hoarding
74	PP66	UoM excl. Gatekeepers	Giant Redwood (Sequoiadendron giganteum)	Site Establishment and Hoarding
75	PP38	UoM excl. Gatekeepers	Pine (Pinus sp.)	Site Establishment and Hoarding
76	PP65	UoM excl. Gatekeepers	Sweet Pittosporum (Pittosporum undulatum)	Site Establishment and Hoarding
77	PP39	UoM excl. Gatekeepers	Patula Pine (Pinus canariensis)	Site Establishment and Hoarding
78	PP64	UoM excl. Gatekeepers	Cotoneaster (Cotoneaster glaucophyllus)	Site Establishment and Hoarding
79	PP63	UoM excl. Gatekeepers	Cotoneaster (Cotoneaster glaucophyllus)	Site Establishment and Hoarding
80	P063	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
81	P064	Grattan Street	Elm (Ulmus sp.)	Site Establishment and Hoarding
82	VCCC1	Grattan Street	Unknown	Service locations
83	VCCC3	Grattan Street	Unknown	Service locations
84	VCCC2	Grattan Street	Unknown	Service locations
85	VCCC4	Grattan Street	Unknown	Service locations
86	VCCC5	Grattan Street	Unknown	Service locations
87	VCCC6	Grattan Street	Unknown	Service locations
88	PP58	UoM excl. Gatekeepers	English Elm (Ulmus procera)	Service locations
89	P202	Grattan Street	Elm (Ulmus sp.)	Service locations
90	PP59	UoM excl. Gatekeepers	English Elm (Ulmus procera)	Service locations
91	P047	Royal Parade	Elm (Ulmus sp.)	Service locations



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## CBD North Precinct

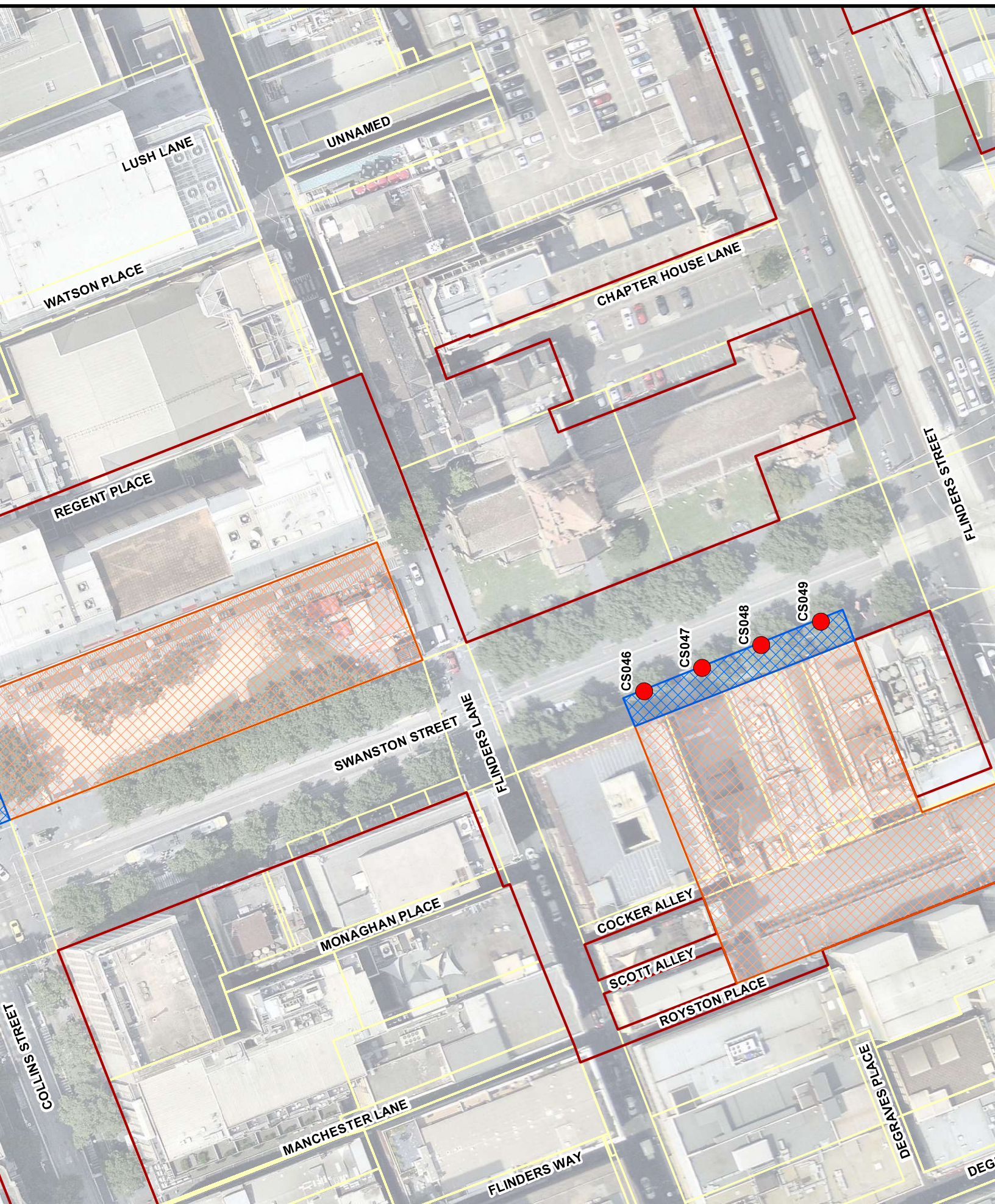
No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
1	CN117	La Trobe Street	London Plane (Platanus acerifolia)	Site Access
2	CN118	La Trobe Street	London Plane (Platanus acerifolia)	Site Access
3	CN119	La Trobe Street	London Plane (Platanus acerifolia)	Site Access
4	CN120	La Trobe Street	Oriental Plane (Platanus orientalis)	Site Access





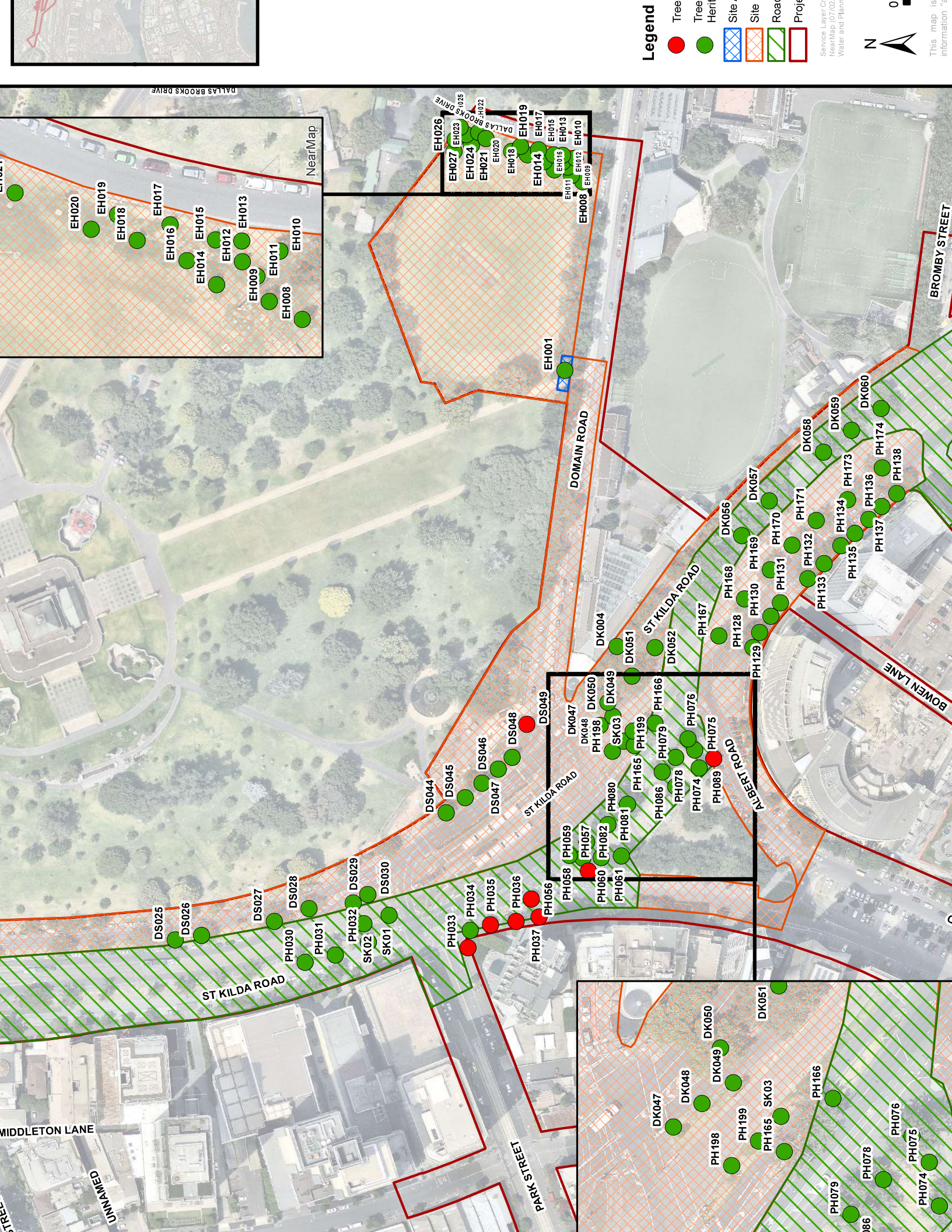
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- Tree: Red circle
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### CBD South Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during CYP Early Works
1	CS047	Swanston Street	London Plane (Platanus acerifolia)	Road / Transport Network Changes
2	CS049	Swanston Street	London Plane (Platanus acerifolia)	Road / Transport Network Changes
3	CS046	Swanston Street	London Plane (Platanus acerifolia)	Road / Transport Network Changes
4	CS048	Swanston Street	London Plane (Platanus acerifolia)	Road / Transport Network Changes

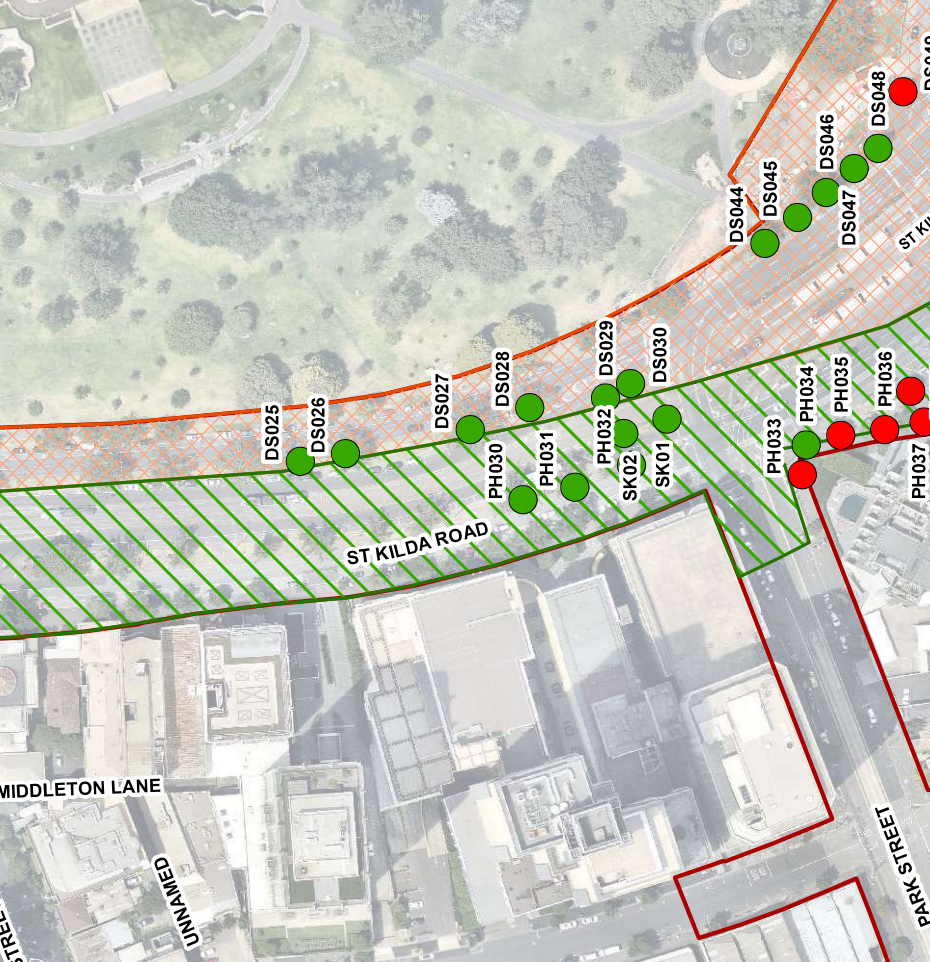
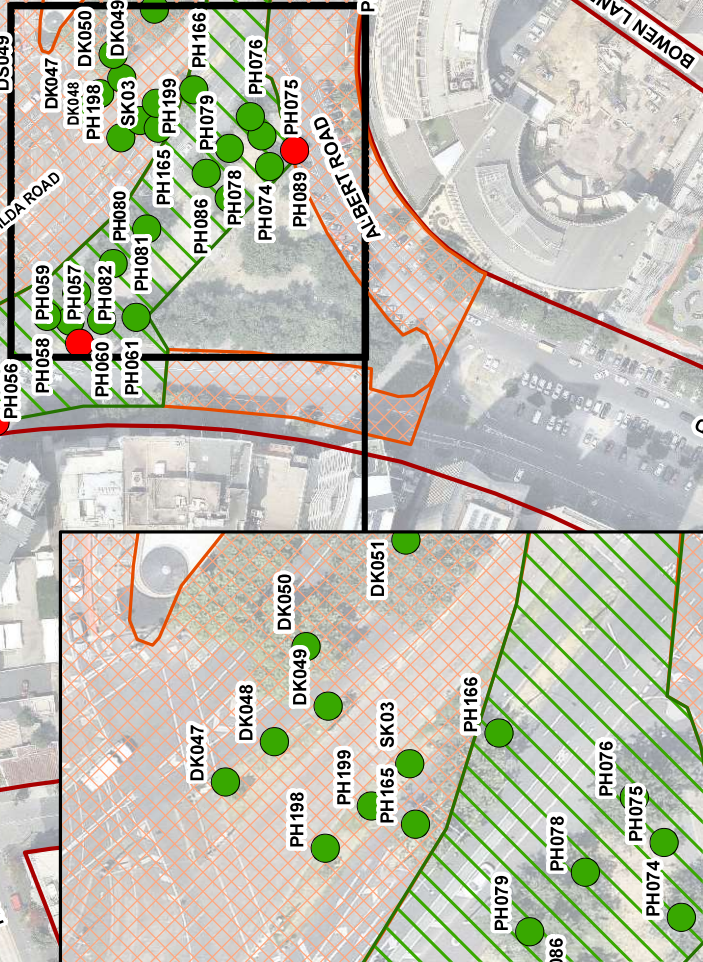
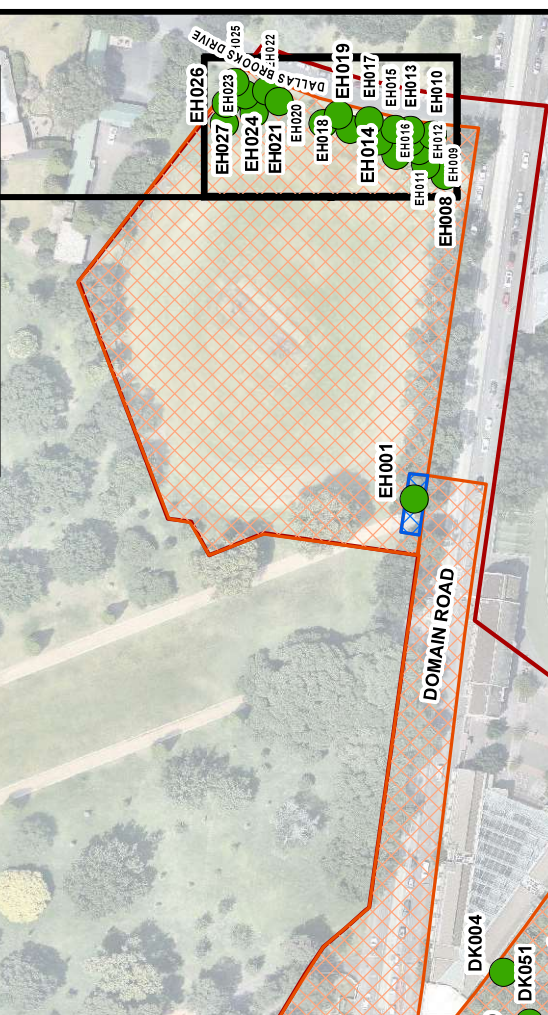
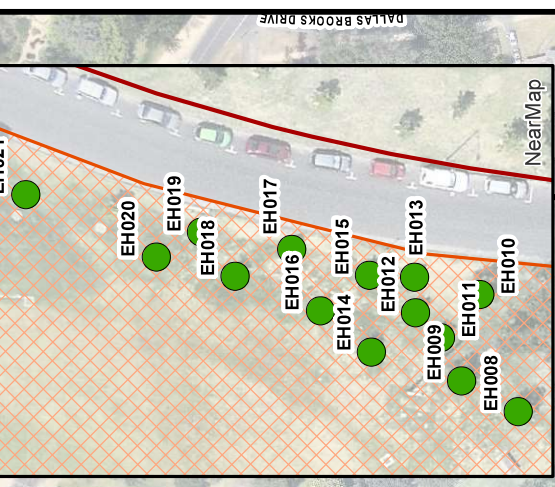


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## Domain Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
1	PH081	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
2	PH080	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
3	DK004	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
4	DK056	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
5	PH175	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
6	PH030	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
7	PH031	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
8	PH032	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
9	DS029	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
10	DS030	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
11	PH059	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
12	PH060	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
13	PH061	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
14	PH058	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
15	PH082	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
16	DS044	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
17	DS045	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
18	PH086	South African Soldiers Mem.	Algerian Oak (Quercus canariensis)	Road / Transport Network Changes
19	DS046	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
20	PH079	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
21	DS047	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
22	PH074	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
23	DS048	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
24	PH078	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
25	PH075	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
26	PH076	South African Soldiers Mem.	English Elm (Ulmus procera)	Road / Transport Network Changes
27	DK047	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
28	DK048	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
29	DS049	Domain Road	Elm (Ulmus sp.)	Site Establishment and Hoarding

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
30	DK049	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
31	DK050	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
32	DK051	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
33	DK052	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
34	PH167	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
35	PH130	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
36	PH131	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
37	PH168	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
38	PH132	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
39	PH169	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
40	PH133	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
41	PH134	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
42	PH170	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
43	PH135	St Kilda Road	Elm (Ulmus sp.)	Site Establishment and Hoarding
44	PH171	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
45	PH136	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
46	PH137	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
47	DK057	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
48	PH173	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
49	PH138	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
50	PH174	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
51	DK058	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
52	DK059	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
53	DK060	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
54	PH176	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
55	PH177	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
56	DK061	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
57	DK062	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
58	PH128	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
59	PH129	St Kilda Road	English Elm (Ulmus procera)	Site Establishment and Hoarding
60	PH033	Park Street	Kurrajong (Brachychiton populneus)	Road / Transport Network Changes

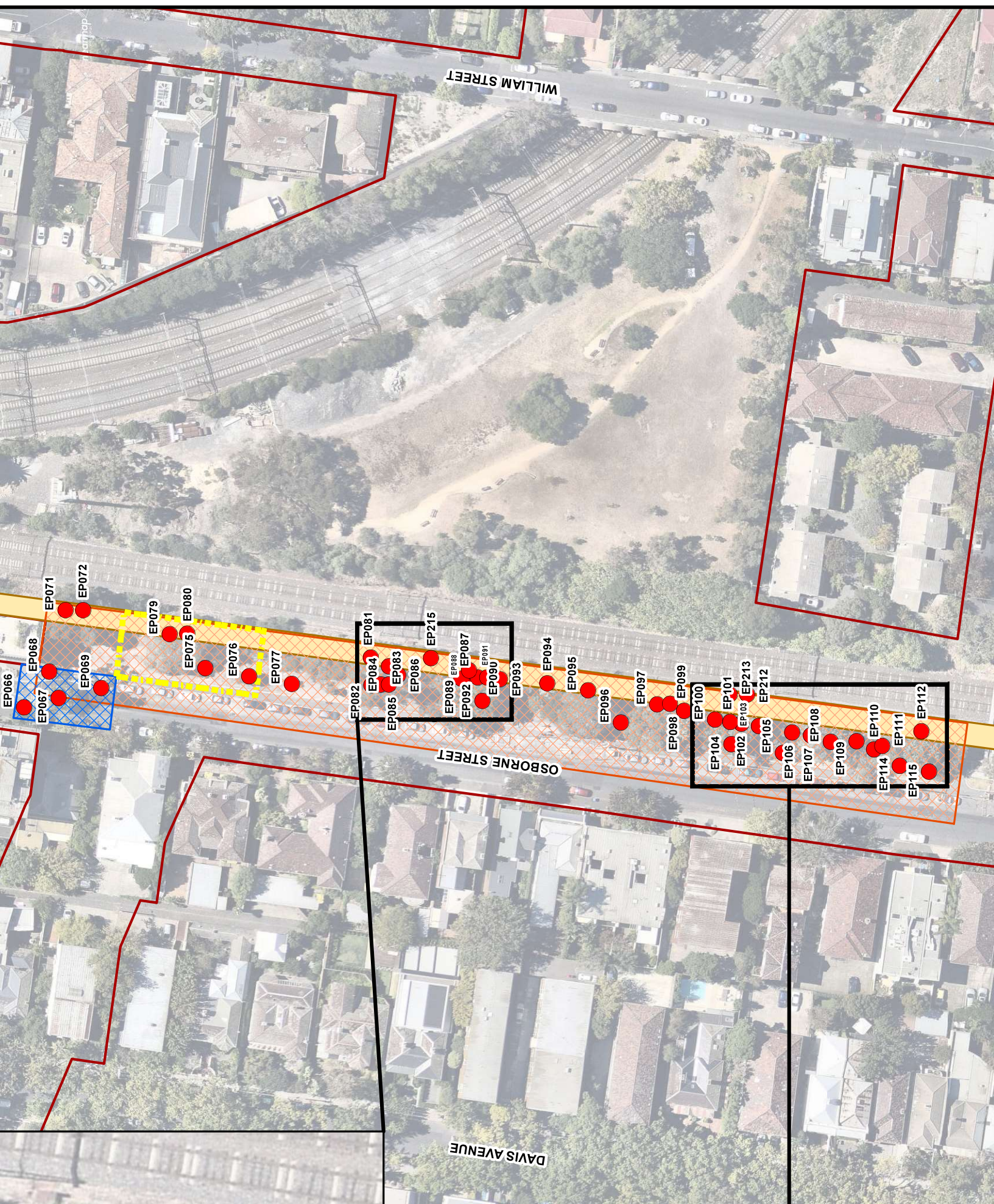
No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
61	PH034	Albert Road Reserve	English Elm (Ulmus procera)	Road / Transport Network Changes
62	PH035	Albert Road Reserve	Chinese Elm (Ulmus parvifolia)	Road / Transport Network Changes
63	PH036	Albert Road Reserve	English Elm (Ulmus procera)	Road / Transport Network Changes
64	PH037	Albert Road Reserve	English Elm (Ulmus procera)	Road / Transport Network Changes
65	DS025	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
66	DS026	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
67	DS027	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
68	DS028	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
69	PH056	Albert Road Reserve	Canary Island Date Palm (Phoenix canariensis)	Road / Transport Network Changes
70	PH057	Albert Road Reserve	English Elm (Ulmus procera)	Road / Transport Network Changes
71	PH089	Albert Road Reserve	English Elm (Ulmus procera)	Site Establishment and Hoarding
72	PH166	St Kilda Road	London Plane (Platanus acerifolia)	Road / Transport Network Changes
73	EH008	Edmund Herring Oval	Spotted Gum (Corymbia maculata)	Site Establishment and Hoarding
74	EH009	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
75	EH014	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
76	EH011	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
77	EH012	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
78	EH016	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
79	EH010	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
80	EH013	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
81	EH018	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
82	EH015	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
83	EH026	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
84	EH017	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
85	EH023	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
86	EH027	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
87	EH024	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
88	EH022	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
89	EH025	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
90	EH001	Shrine of Remembrance	Elm (Ulmus sp.)	Site Access

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
91	EH020	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
92	EH019	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
93	EH021	Edmund Herring Oval	Queensland Kauri (Agathis robusta)	Site Establishment and Hoarding
94	PH198	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
95	PH199	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
96	PH165	St Kilda Road	London Plane (Platanus acerifolia)	Site Establishment and Hoarding
97	SK01	St Kilda Road	-	Road / Transport Network Changes
98	SK02	St Kilda Road	-	Road / Transport Network Changes
99	SK03	St Kilda Road	-	Site Establishment and Hoarding



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### Eastern Portal Precinct

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
1	EP092	VicTrack land - Rail corridor	Smooth-barked Apple ( <i>Angophora costata</i> )	Site Establishment and Hoarding
2	EP067	Osborne Street	Cyprian Plane ( <i>Platanus orientalis</i> 'Digitata')	Road / Transport Network Changes
3	EP082	VicTrack land - Rail corridor	Narrow-leaved Black Peppermint ( <i>Eucalyptus nicholii</i> )	Site Establishment and Hoarding
4	EP083	VicTrack land - Rail corridor	Blue Gum ( <i>Eucalyptus globulus</i> ssp. <i>globulus</i> )	Site Establishment and Hoarding
5	EP085	VicTrack land - Rail corridor	Eucalypt ( <i>Eucalyptus</i> sp.)	Site Establishment and Hoarding
6	EP077	VicTrack land - Rail corridor	Smooth-barked Apple ( <i>Angophora costata</i> )	Site Establishment and Hoarding
7	EP089	VicTrack land - Rail corridor	Black Sallee ( <i>Eucalyptus stellulata</i> )	Site Establishment and Hoarding
8	EP087	VicTrack land - Rail corridor	Black Sallee ( <i>Eucalyptus stellulata</i> )	Site Establishment and Hoarding
9	EP090	VicTrack land - Rail corridor	Silky Oak ( <i>Grevillea robusta</i> )	Site Establishment and Hoarding
10	EP091	VicTrack land - Rail corridor	Silky Oak ( <i>Grevillea robusta</i> )	Site Establishment and Hoarding
11	EP076	VicTrack land - Rail corridor	Smooth-barked Apple ( <i>Angophora costata</i> )	Site Establishment and Hoarding
12	EP086	VicTrack land - Rail corridor	Blue Gum ( <i>Eucalyptus globulus</i> ssp. <i>globulus</i> )	Site Establishment and Hoarding
13	EP088	VicTrack land - Rail corridor	Black Sallee ( <i>Eucalyptus stellulata</i> )	Site Establishment and Hoarding
14	EP075	VicTrack land - Rail corridor	Smooth-barked Apple ( <i>Angophora costata</i> )	Site Establishment and Hoarding
15	EP084	VicTrack land - Rail corridor	Blue Gum ( <i>Eucalyptus globulus</i> ssp. <i>globulus</i> )	Site Establishment and Hoarding
16	EP068	Osborne Street	Box Elder ( <i>Acer negundo</i> )	Road / Transport Network Changes
17	EP069	Osborne Street	Claret Ash ( <i>Fraxinus angustifolia</i> 'Raywood')	Road / Transport Network Changes
18	EP215	VicTrack land - Rail corridor	Blue Gum ( <i>Eucalyptus globulus</i> ssp. <i>globulus</i> )	Site Establishment and Hoarding
19	EP081	VicTrack land - Rail corridor	Eurabbie ( <i>Eucalyptus globulus</i> ssp. <i>bicostata</i> )	Site Establishment and Hoarding
20	EP079	VicTrack land - Rail corridor	Swamp Mahogany ( <i>Eucalyptus robusta</i> )	Site Establishment and Hoarding
21	EP080	VicTrack land - Rail corridor	Red Spotted Gum ( <i>Eucalyptus mannifera</i> )	Site Establishment and Hoarding
22	EP071	VicTrack land - Rail corridor	Blue Gum ( <i>Eucalyptus globulus</i> ssp. <i>globulus</i> )	Site Establishment and Hoarding
23	EP072	VicTrack land - Rail corridor	Red Spotted Gum ( <i>Eucalyptus mannifera</i> )	Site Establishment and Hoarding
24	EP096	VicTrack land - Rail corridor	Smooth-barked Apple ( <i>Angophora costata</i> )	Site Establishment and Hoarding
25	EP100	VicTrack land - Rail corridor	Snow-in-Summer ( <i>Melaleuca linariifolia</i> )	Site Establishment and Hoarding
26	EP099	VicTrack land - Rail corridor	Silky Oak ( <i>Grevillea robusta</i> )	Site Establishment and Hoarding

No	Tree ID	Location	Tree Type	Reason for Removal during Early Works
27	EP097	VicTrack land - Rail corridor	Eucalypt (Eucalyptus sp.)	Site Establishment and Hoarding
28	EP098	VicTrack land - Rail corridor	Black Sallee (Eucalyptus stellulata)	Site Establishment and Hoarding
29	EP095	VicTrack land - Rail corridor	Red Spotted Gum (Eucalyptus mannifera)	Site Establishment and Hoarding
30	EP094	VicTrack land - Rail corridor	Gossamer Wattle (Acacia floribunda)	Site Establishment and Hoarding
31	EP093	VicTrack land - Rail corridor	Swamp Mahogany (Eucalyptus robusta)	Site Establishment and Hoarding
32	EP115	VicTrack land - Rail corridor	Snow-in-Summer (Melaleuca linariifolia)	Site Establishment and Hoarding
33	EP114	VicTrack land - Rail corridor	Smooth-barked Apple (Angophora costata)	Site Establishment and Hoarding
34	EP105	VicTrack land - Rail corridor	Smooth-barked Apple (Angophora costata)	Site Establishment and Hoarding
35	EP110	VicTrack land - Rail corridor	Eucalypt (Eucalyptus sp.)	Site Establishment and Hoarding
36	EP111	VicTrack land - Rail corridor	Eucalypt (Eucalyptus sp.)	Site Establishment and Hoarding
37	EP104	VicTrack land - Rail corridor	Smooth-barked Apple (Angophora costata)	Site Establishment and Hoarding
38	EP108	VicTrack land - Rail corridor	Prickly-leaved Paperbark (Melaleuca styphelioides)	Site Establishment and Hoarding
39	EP109	VicTrack land - Rail corridor	Silky Oak (Grevillea robusta)	Site Establishment and Hoarding
40	EP107	VicTrack land - Rail corridor	Black Sallee (Eucalyptus stellulata)	Site Establishment and Hoarding
41	EP106	VicTrack land - Rail corridor	Red Spotted Gum (Eucalyptus mannifera)	Site Establishment and Hoarding
42	EP112	VicTrack land - Rail corridor	Silky Oak (Grevillea robusta)	Site Establishment and Hoarding
43	EP103	VicTrack land - Rail corridor	Black Sallee (Eucalyptus stellulata)	Site Establishment and Hoarding
44	EP102	VicTrack land - Rail corridor	Swamp Mahogany (Eucalyptus robusta)	Site Establishment and Hoarding
45	EP101	VicTrack land - Rail corridor	Prickly-leaved Paperbark (Melaleuca styphelioides)	Site Establishment and Hoarding
46	EP066	Osborne Street	Gallery Pear (Pyrus calleryana)	Road / Transport Network Changes
47	EP213	VicTrack land - Rail corridor	Eucalypt (Eucalyptus sp.)	Site Establishment and Hoarding
48	EP212	VicTrack land - Rail corridor	Eucalypt (Eucalyptus sp.)	Site Establishment and Hoarding

