

Urban Design and Landscape Plan

North East Link Eastern Freeway Upgrades – Hoddle Street to Burke Road
Attachment 4: Overshadowing and Overlooking Assessment

BIG BUILD
EASTERN FREEWAY



Artist's impression - indicative only

Overshadowing and Overlooking Assessment

Overview & Document Control

Attachment 4 contains an overshadowing and overlooking assessment associated with infrastructure proposed as part of the Eastern Freeway Upgrades Hoddle Street to Burke Road.

The overshadowing assessment illustrates the expected overshadowing of the Project noise walls and elevated structures and is based on shadow modelling as measured on September 22 (spring equinox).

The overlooking assessment provides an analysis of overlooking from elevated structures including the shared use path bridge over Birrarung and the elevated elements of the Eastern Freeway Busway bridge. The overlooking analysis is based on the current design.

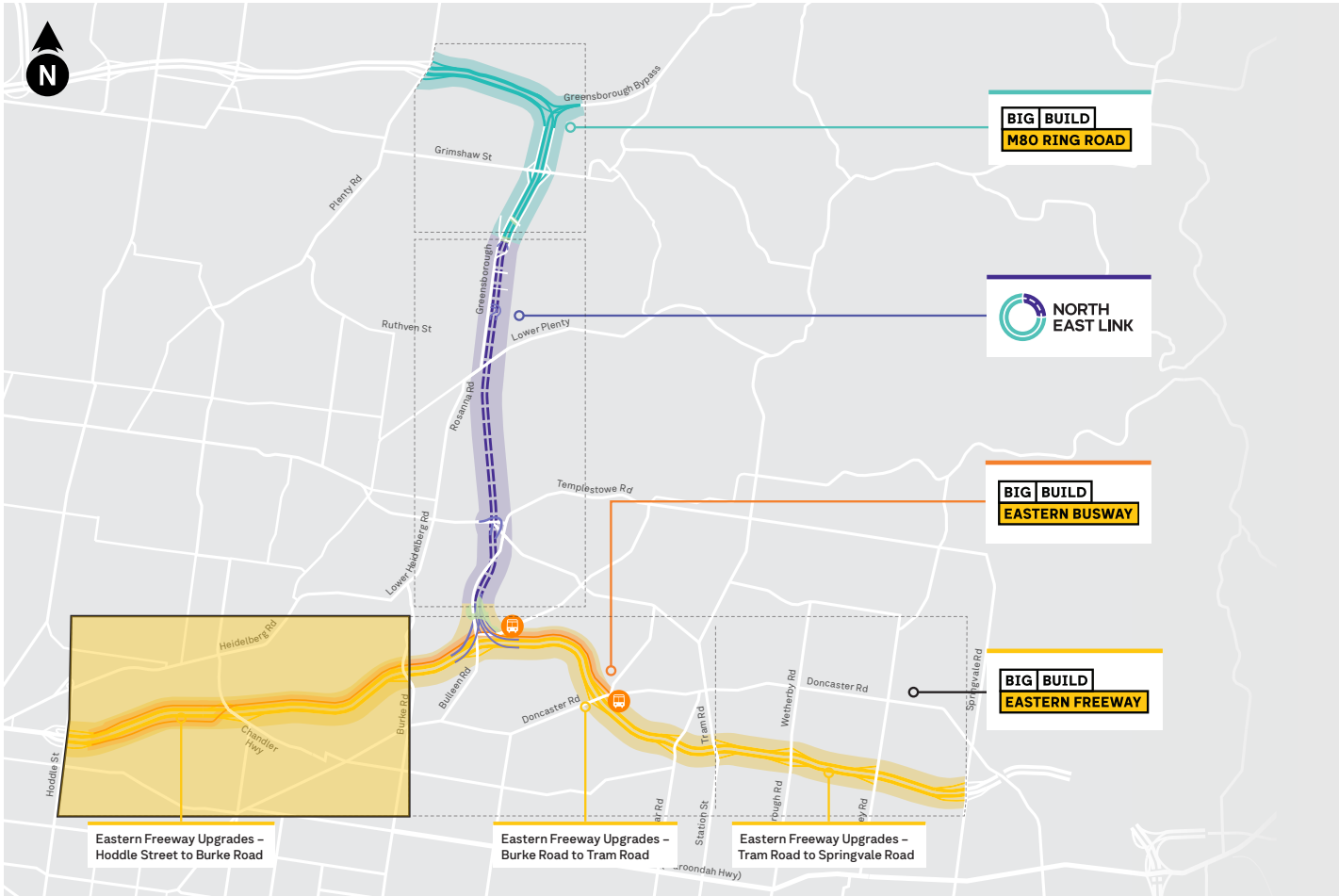
This assessment demonstrates how new infrastructure proposed in this Urban Design and Landscape Plan has limited overshadowing and overlooking impacts in compliance with the Urban Design Strategy (UDS) and Environmental Performance Requirements (EPR) included in the approved Environment Management Framework (EMF).

Document information

Document title	Urban Design and Landscape Plan, North East Link Eastern Freeway Upgrades – Hoddle Street to Burke Road
Document number	Attachment 4: Overshadowing and Overlooking Assessment

Document Control – Revision History

Revision number	Date	Description of Change	Prepared By
0	27 October 2025	Issue for Public Exhibition	EHBA
0.01	02 March 2026	Issue for Review	EHBA
1	19 June 2026	Issued for Approval	EHBA



Locality plan

Overshadowing and Overlooking Assessment

Purpose

The purpose of the Overshadowing and Overlooking Assessment is to identify and assess expected overshadowing and overlooking caused from infrastructure being built as part of the Eastern Freeway Upgrades Hoddle Street to Burke Road. Overshadowing refers to the shadow cast by a building or a structure onto nearby properties. Overlooking considers whether new infrastructure enables views into adjacent homes or gardens.

The overshadowing analysis is based on shadows cast by non-transparent structures during the Spring equinox, which occurs in the Southern Hemisphere on September 22 each year.

The assessment is prepared in accordance with the EPR LP4 as follows:

Minimise overshadowing from noise walls and elevated structures and overlooking from elevated structure.

Overshadowing from elevated structures and noise walls to residential properties (including existing solar panels), community facilities, open spaces, waterways and valuable natural habitats must be minimised through detailed design. Consultation must occur with directly affected property owners and occupiers to inform formulation of parameters for these structures including location, design and materials.

Unless with the consent of an affected landowner or in exceptional circumstances, the extent of additional overshadowing of residential properties from non-transparent structures:

- Should be no greater than the existing shadowing of secluded private open spaces associated with residential properties cast by existing structures including existing noise walls and other structures (e.g., elevated walkways) between the hours of 9:00 am to 3:00 pm as measured on September 22*
- If additional overshadowing occurs it must not be greater than 50% of the secluded private open space or 40 sqm, whichever is the greater, between the hours of 9:00 am to 3:00 pm as measured on September 22.*

Overlooking from elevated structures, especially within a distance of 15 metres to secluded open space and habitable room windows of residential properties, must be minimised through detailed design as far practicable. Consultation must occur with directly affected property owners and occupiers to inform formulation of parameters, designs and materials for these structures.

The assessment also considers the EPR, Landscape and Visual 1 (LV1): Design to be in accordance with the UDS. Specifically, the UDS seeks to ‘avoid or minimise landscape and visual, overlooking, and shading... impacts in extent, duration and intensity’ and ‘detailed design to ensure landmark elements balance visual impact with minimal overshadowing’.

The UDLP has been designed to be in accordance with the UDS, including requirements to minimise overlooking and overshadowing.

Refer to UDLP Attachment 1: Architecture and Urban Design for design drawings relating to elevated structures, noise wall and screening details and finishes, and noise wall alignment.

Methodology

The following methodology has been employed for the assessment:

- Development of a 3D terrain model created using one metre contour data
- Development of a 3D model of the current design which is informed by ongoing consultation and design development
- Utilising modelling software to undertake overshadowing analysis on September 22nd
- Utilising modelling software to develop overlooking diagrams and analysis in line with design development.

Overshadowing diagrams are presented at the following scales to provide a comprehensive visual representation:

- **Zone Wide Analysis:** Provides a zoomed-out zone-wide assessment undertaken at 9am, 12pm, and 3pm to locate areas of overshadowing. This zone-wide analysis is used to inform locations for focused analysis of directly affected properties (including existing solar panels), and other sensitive areas including community facilities, open spaces, waterways, and valuable natural habitats (as required by LP4). Although there are nominal noise wall heights between 2m to 8m outlined in Attachment 1, the zone-wide analysis is prepared conservatively using a consistent “worst case scenario” of an 8m high solid, non-transparent noise wall.
- **Focused Analysis:** Provides a zoomed-in analysis of overshadowing at specific locations where the overshadowing impact from new noise walls and elevated structures occurs within 6 metres of residential properties, at 9am, 12pm, and 3pm. Noise wall and screening heights in these areas have been reduced as far as practicable. No residential properties are affected by overshadowing as shown in the focused analysis.

Overlooking analysis has been undertaken on all new elevated structures, regardless of the proximity to residential properties. Overlooking analysis has been depicted to show effects at a standard eye height of 1.7 metres for the shared use path bridge and an assumed effective bus passenger eye height of 2.3 metres for the busway bridge above the finished surface level of the elevated structure. Both analyses have been undertaken at an angle of 45 degrees from eye level. No residential properties are affected by overlooking as shown in the overlooking analysis.

Limitations

While every effort has been made to create an accurate model, the limited resolution of the contour data and the approximation of dwelling height and form means that the overshadowing and overlooking output should only be used as a guide to inform ongoing consultation and the application of mitigation measures to be used and finalised during design development.

In some cases, approximations were made off external data sources to determine the location and dimensions of elements where data is not readily available, such as the use of high-resolution aerial imagery for determining structures outside the project boundary if required.

The output is conservative as it does not take into account existing vegetation, minor built forms such as gantries, light poles, and low height retaining walls, or proposed landscape treatments and trees due to the potential for these items to alter over time.

Tinted transparent acrylic noise walls are not proposed as part of this UDLP and have not been considered in any analysis.

Overshadowing and overlooking are progressively assessed throughout the design development subject to detailed site surveys and further noise assessments used to determine if the extent of overshadowing can be further reduced.

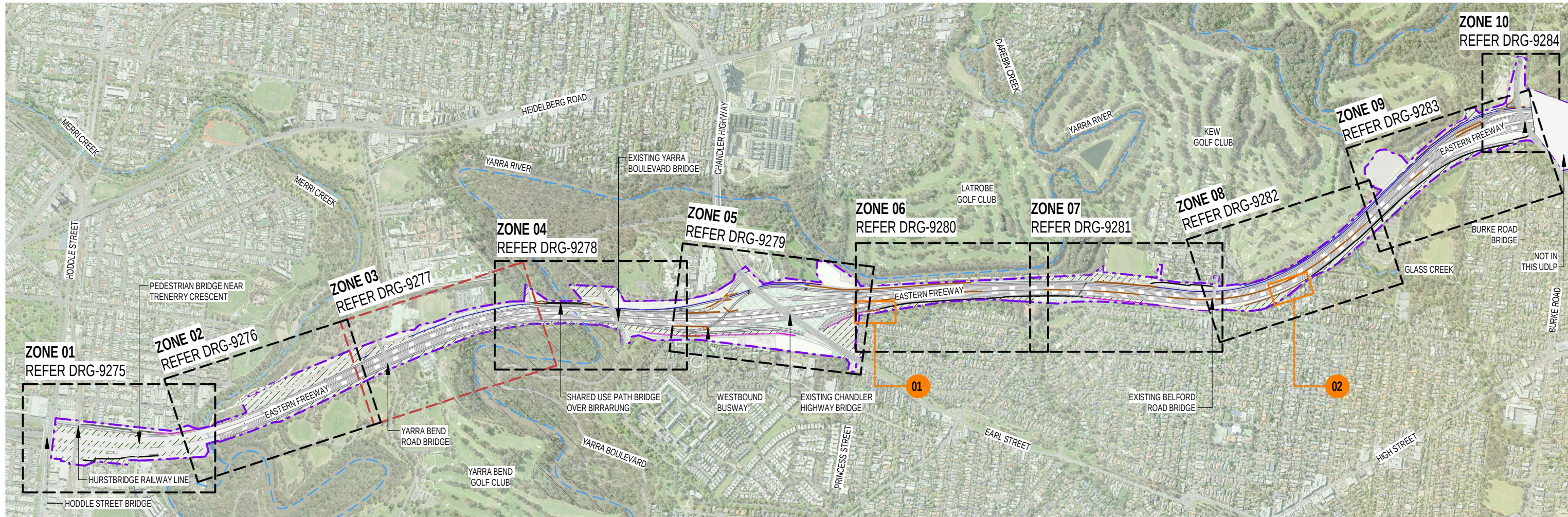
The design of elevated structures and noise walls will progress based on consultation outcomes used to inform the design of elevated structures and noise walls, including specific materials, heights and alignment and, where relevant, the detailed design application of mitigation measures which balance both overlooking and overshadowing impacts including screen types.

Overshadowing and Overlooking Assessment

Table of Contents

Table 1: Overshadowing and overlooking assessment

Drawing number	Location
NEL-WST-NWA-4990-UUD-DRG-9271	Overshadowing and overlooking assessment - overview and document control
NEL-WST-NWA-4990-UUD-DRG-9272	Overshadowing and overlooking assessment - purpose, methodology and limitations
NEL-WST-NWA-4990-UUD-DRG-9273	Overshadowing and overlooking assessment - table of contents
NEL-WST-NWA-4990-UUD-DRG-9274	Overshadowing assessment - alignment plan
NEL-WST-NWA-4100-UUD-DRG-9275	Overshadowing assessment - zone 01
NEL-WST-NWA-4100-UUD-DRG-9276	Overshadowing assessment - zone 02
NEL-WST-NWA-4100-UUD-DRG-9277	Overshadowing assessment - zone 03
NEL-WST-NWA-4100-UUD-DRG-9278	Overshadowing assessment - zone 04
NEL-WST-NWA-4100-UUD-DRG-9279	Overshadowing assessment - zone 05
NEL-WST-NWA-4200-UUD-DRG-9280	Overshadowing assessment - zone 06
NEL-WST-NWA-4200-UUD-DRG-9281	Overshadowing assessment - zone 07
NEL-WST-NWA-4200-UUD-DRG-9282	Overshadowing assessment - zone 08
NEL-WST-NWA-4200-UUD-DRG-9283	Overshadowing assessment - zone 09
NEL-WST-NWA-4200-UUD-DRG-9284	Overshadowing assessment - zone 10
NEL-WST-NWA-4200-UUD-DRG-9285	Overshadowing assessment - focused analysis Princess Street area
NEL-WST-NWA-4200-UUD-DRG-9286	Overshadowing assessment - focused analysis Fairway Drive area
NEL-WST-NWA-4990-UUD-DRG-9287	Overlooking assessment - alignment key plan
NEL-WST-NWA-4100-UUD-DRG-9288	Overlooking assessment - focused analysis shared use path bridge over Birrarung
NEL-WST-NWA-4100-UUD-DRG-9289	Overlooking assessment - focused analysis westbound busway bridge



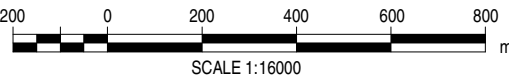
1 ALIGNMENT PLAN
SCALE 1 : 16000

LEGEND - OVERSHADOWING ALIGNMENT KEY PLAN

- | | | | | | |
|--|---------------------|--|-------------------------------|--|---------------------|
| | PROJECT BOUNDARY | | ZONE WIDE ANALYSIS | | NO NOISE WALLS ZONE |
| | NOISE WALL PROPOSED | | NOISE WALL EXISTING TO REMAIN | | FOCUSED ANALYSIS |

- | KEY | LOCATION |
|-----|---|
| 01 | FOCUSED ANALYSIS: PRINCESS STREET AREA
(REFER TO DRG 9283) |
| 02 | FOCUSED ANALYSIS: FAIRWAY DRIVE AREA
(REFER TO DRG 9284) |

- NOTE:
1. FOCUSED ANALYSIS PROVIDES A ZOOMED-IN ANALYSIS OF LOCATIONS WHERE THE OVERSHADOWING IMPACT IS WITHIN 6 METRES OF RESIDENTIAL PROPERTIES. THIS ANALYSIS CONFIRMS COMPLIANCE WITH EPR LP4 AS THERE ARE NO NEW OVERSHADOWING IMPACTS TO RESIDENTIAL PROPERTIES AS A RESULT OF THE PROJECT.
 2. THE ALIGNMENT, LOCATION, DESIGN AND MATERIALS OF GANTRIES, BARRIERS, HARDSTANDS, FENCES, NOISE WALLS, PIERS, RETAINING WALLS, SCREENS AND OTHER BRIDGE ELEMENTS ARE SUBJECT TO CHANGE DUE TO DESIGN DEVELOPMENT, ENGINEERING ADVICE AND TECHNICAL REQUIREMENTS.
 3. NOISE WALLS ARE NOT REQUIRED WITHIN ZONE 03. AN ASSESSMENT OF OVERSHADOWING IS NOT REQUIRED.



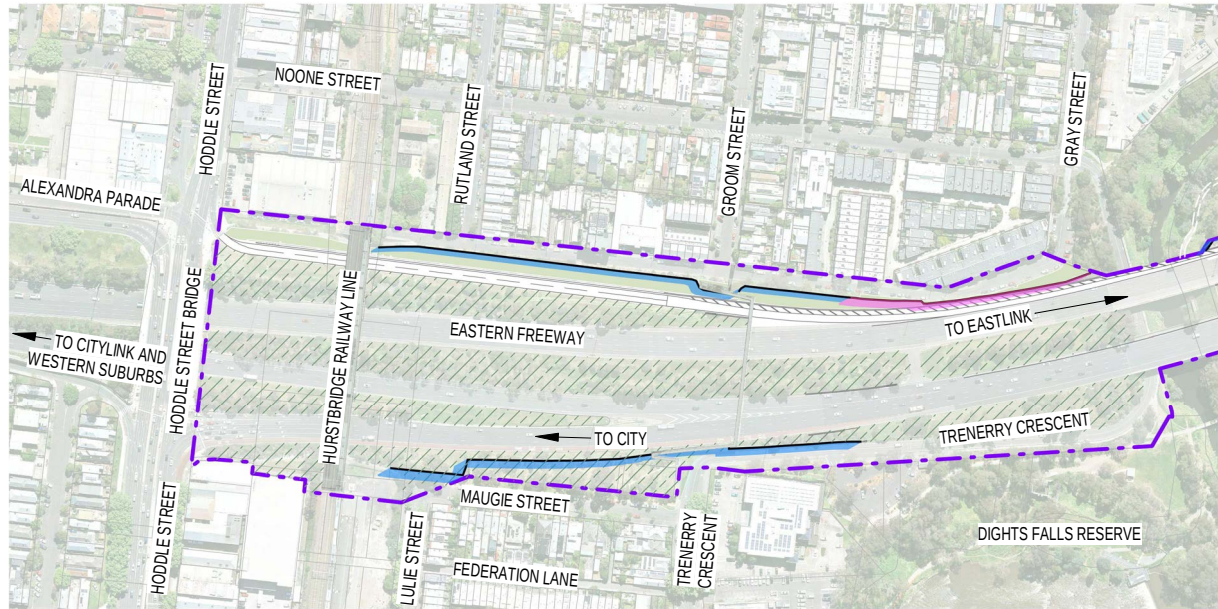
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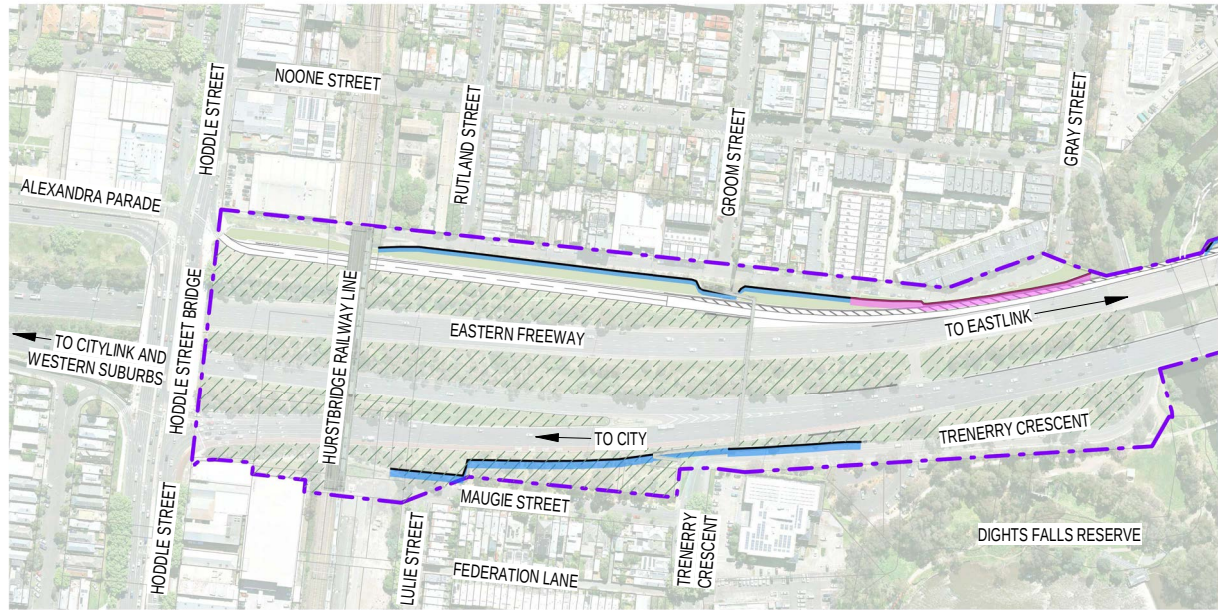
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REVISIONS			SCALE: As indicated			SUIT. CODE		
			CAD FILE:			1		

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1 **ZONE WIDE ANALYSIS: ZONE 01 - 22 SEP 9AM**
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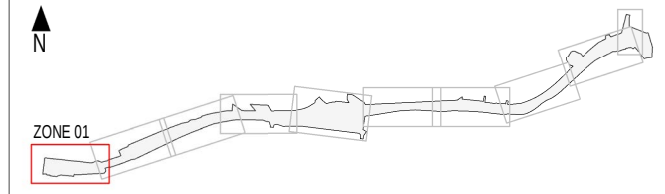
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SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
- NEW SHADOW
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN



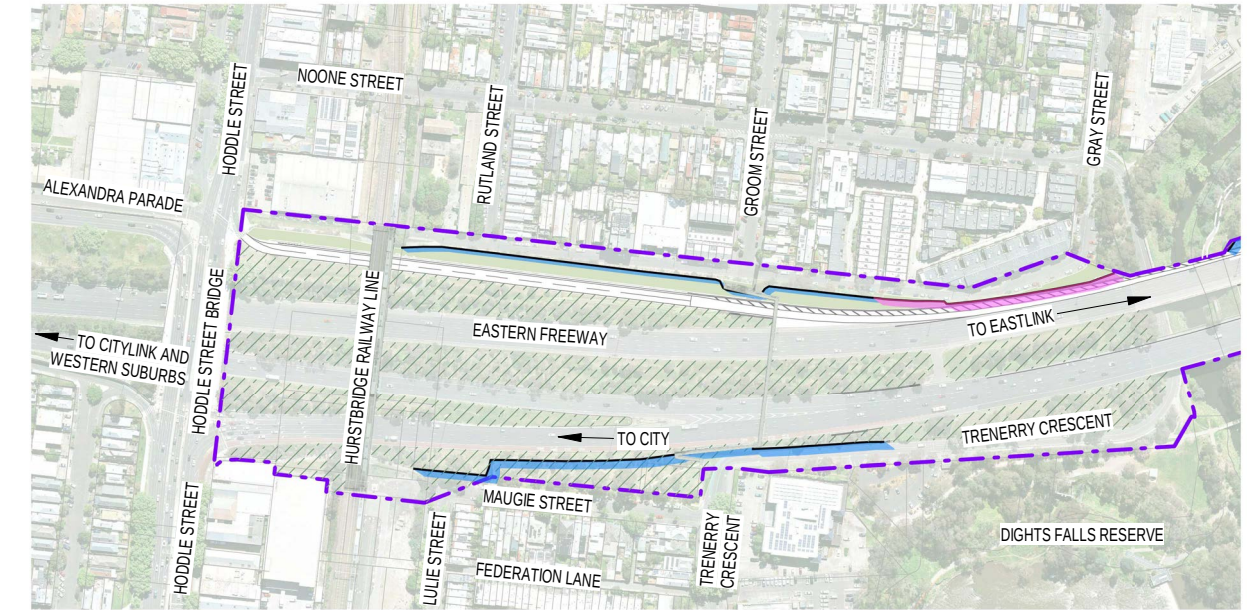
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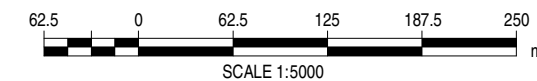
ASSUMED NOISE WALLS HEIGHTS:

NOISE WALLS HEIGHTS (RANGING FROM 2M TO 8M) ARE INDICATED ON DRAWING NO.S 9201 - 9210, BASED ON THE LATEST NOISE MODELLING AND ADVICE BY ACOUSTIC ENGINEERS. IT IS NOTED THAT THE NOMINAL NOISE WALL HEIGHTS MAY BE REDUCED SUBJECT TO FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF NOISE WALL STRATEGY, WHICH IN TURN REDUCES AMENITY IMPACTS, SUCH AS OVERSHADOWING.

IN LIGHT OF THE ABOVE AND TO ENSURE FULL COMPLIANCE WITH ENVIRONMENTAL PERFORMANCE REQUIREMENT (EPR) LAND USE PLANNING 4 (LP4), SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED NOISE WALL HEIGHT OF 8M WHICH IS THE 'WORSE CASE SCENARIO'



3 **ZONE WIDE ANALYSIS: ZONE 01 - 22 SEP 3PM**
SCALE 1 : 5000



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EASTERN FREEWAY

Hoddle to Burke Alliance
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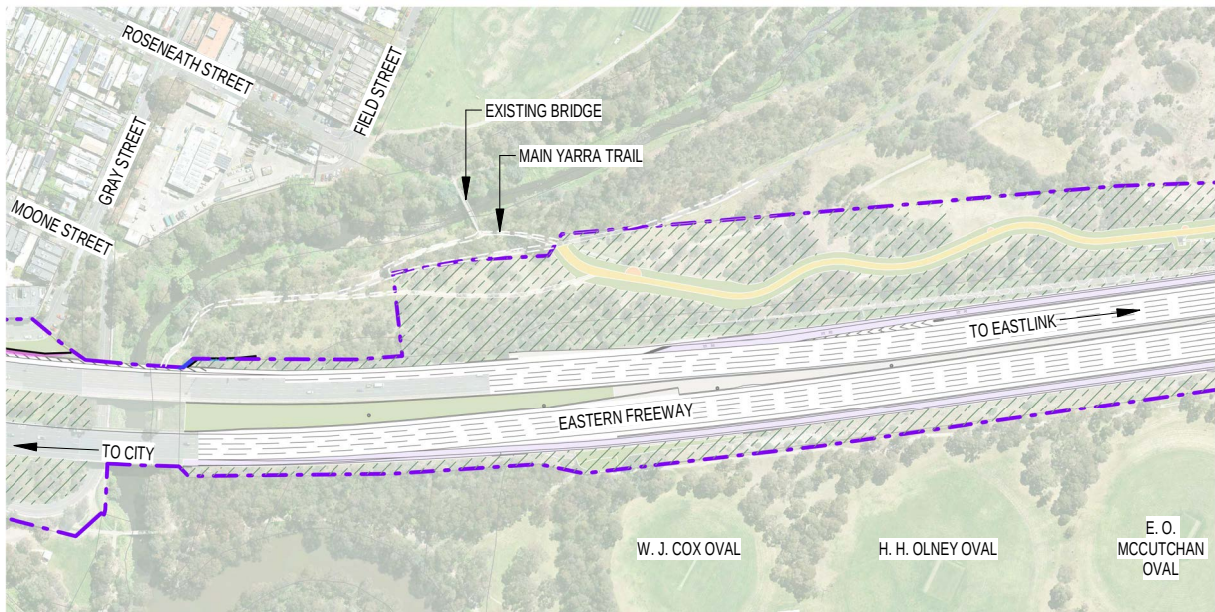
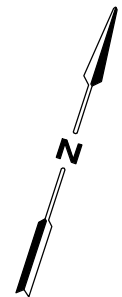
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EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT
OVERSHADOWING ASSESSMENT
ZONE 01

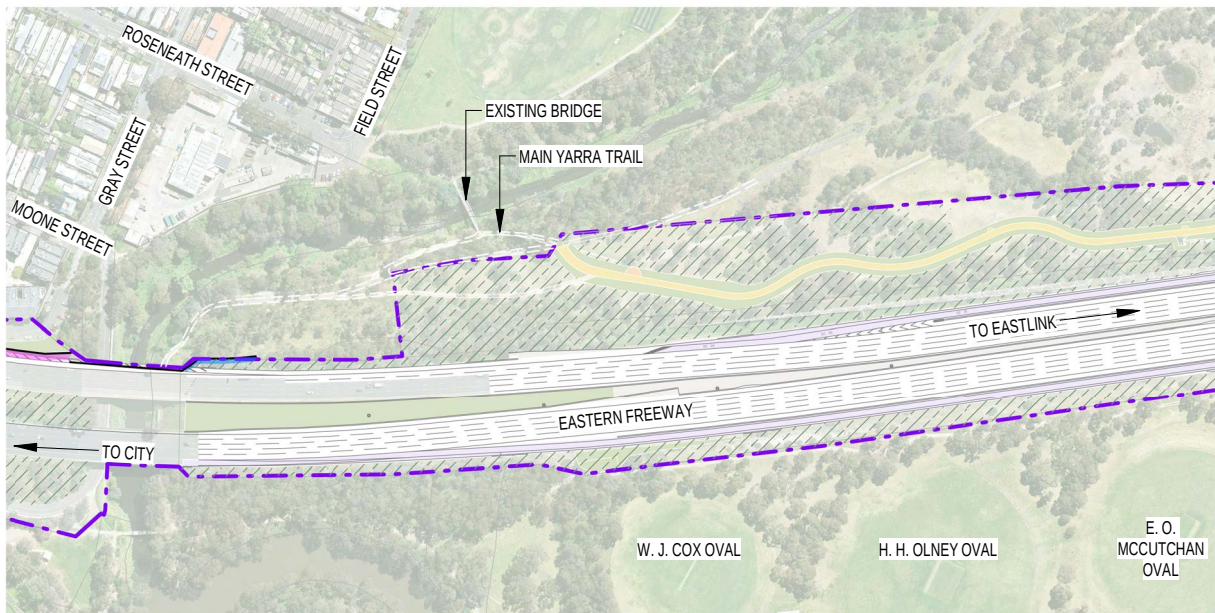
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1 ZONE WIDE ANALYSIS: ZONE 02 - 22 SEP 9AM
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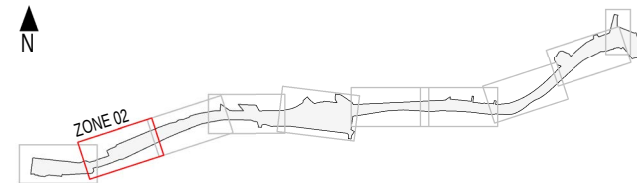
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SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN

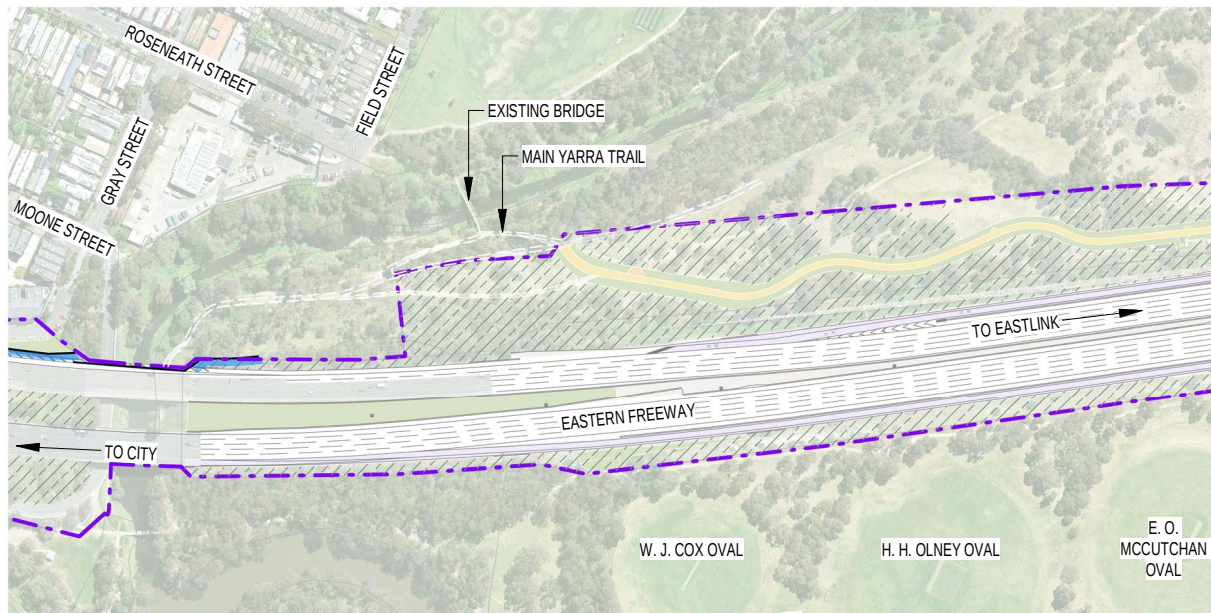


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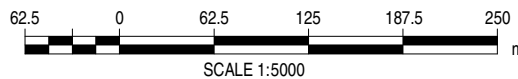
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NO PROPOSED NOISE WALLS:

NO NEW NOISE WALLS ARE PROPOSED WITHIN THIS ZONE. THE OVERSHADOWING ASSESSMENT SHOWS NO NEW IMPACT TO SURROUNDING PROPERTIES.



2 ZONE WIDE ANALYSIS: ZONE 02 - 22 SEP 3PM
SCALE 1 : 5000



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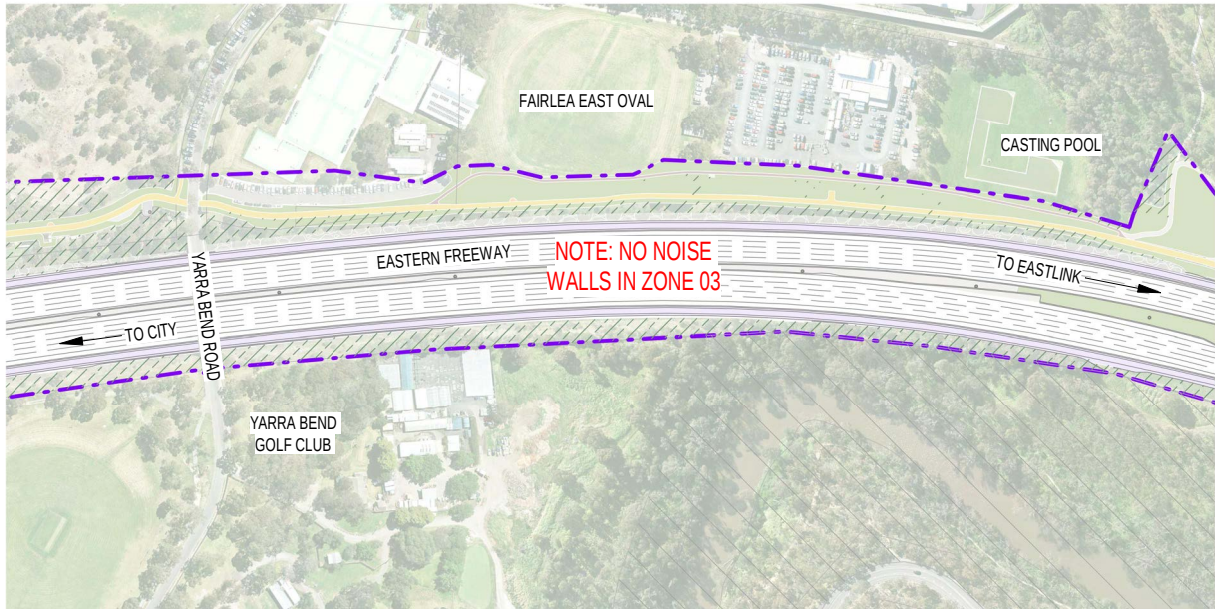
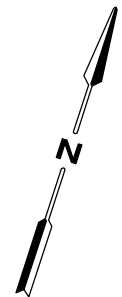
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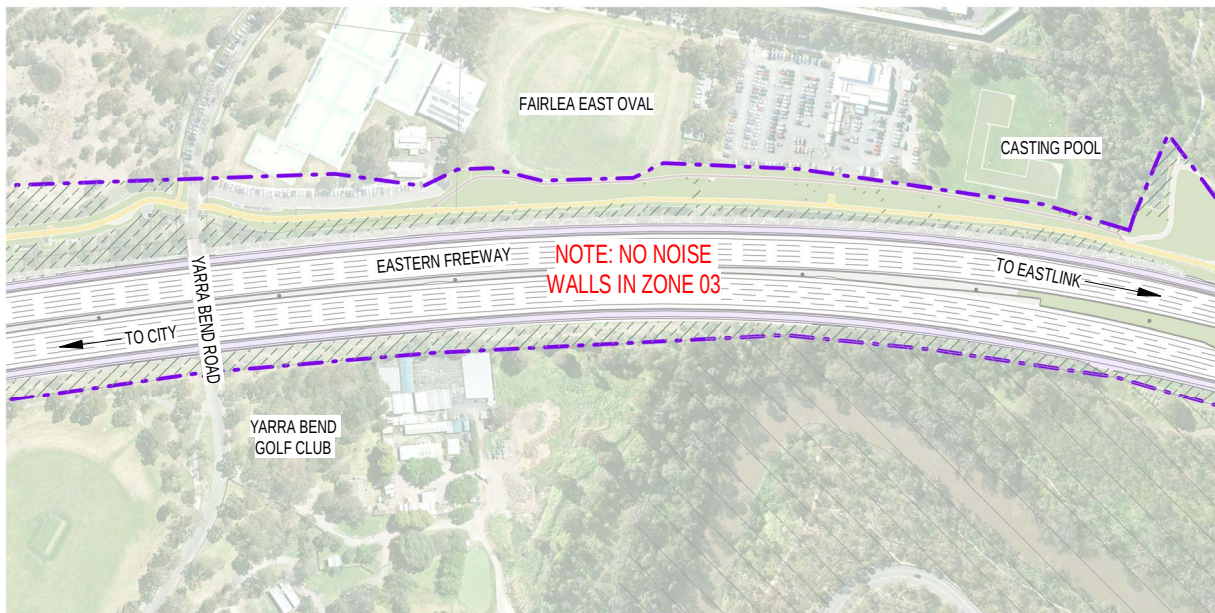
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SCALE: As indicated	CAD FILE:

VIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	VICTORIA'S BIG BUILD
Protective Marking: OFFICIAL	PROJECT CONTRACT: WEST

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE) ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT OVERSHADOWING ASSESSMENT ZONE 02			
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1 ZONE WIDE ANALYSIS: ZONE 03 - 22 SEP 9AM
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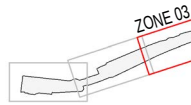
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NOTE:
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LEGEND - OVERSHADOWING ANALYSIS

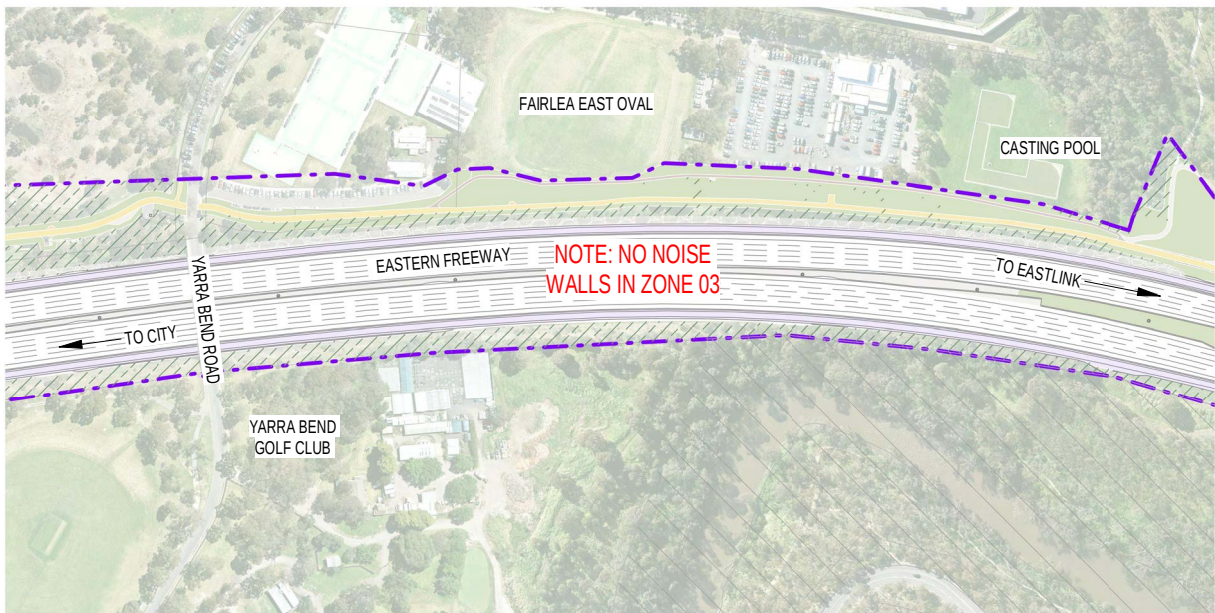
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KEY PLAN

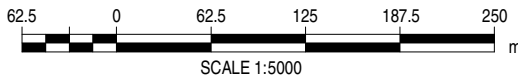


OVERSHADOWING DISCLAIMER NOTE:

NOISE WALLS ARE NOT REQUIRED WITHIN ZONE 03. THE OVERSHADOWING ASSESSMENT AT ZONE 03 IS NOT REQUIRED.



3 ZONE WIDE ANALYSIS: ZONE 03 - 22 SEP 3PM
SCALE 1 : 5000



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BIG BUILD
EASTERN FREEWAY

SIZE:

SCALE: As indicated

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Protective Marking: OFFICIAL

CAD FILE:

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ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT
OVERSHADOWING ASSESSMENT
ZONE 03

PROJECT CONTRACT:

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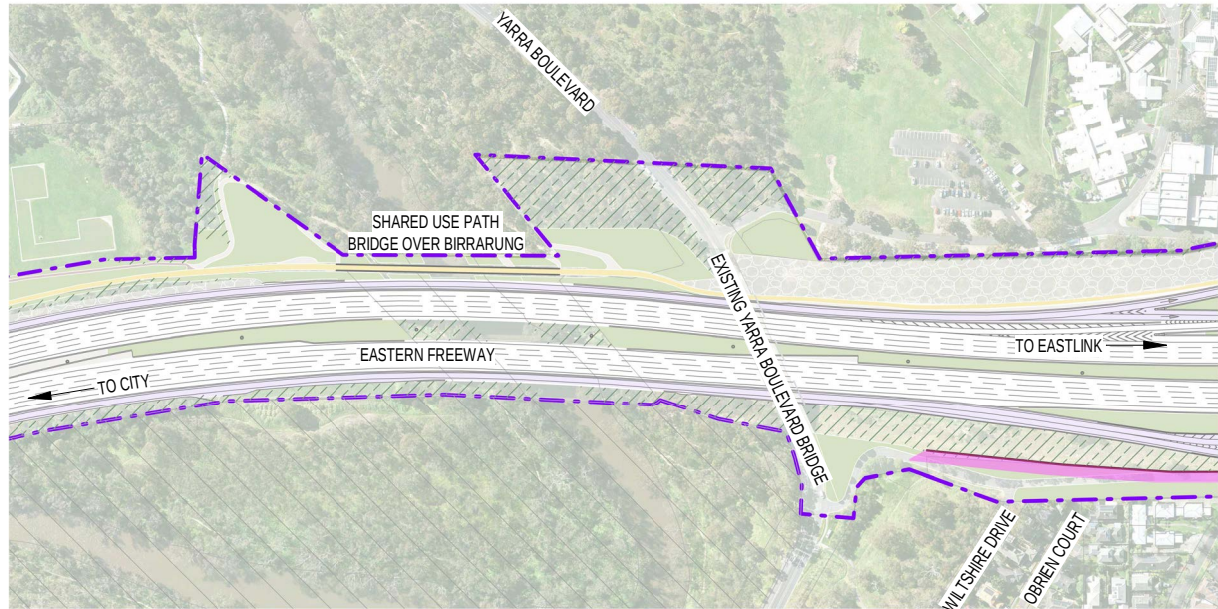
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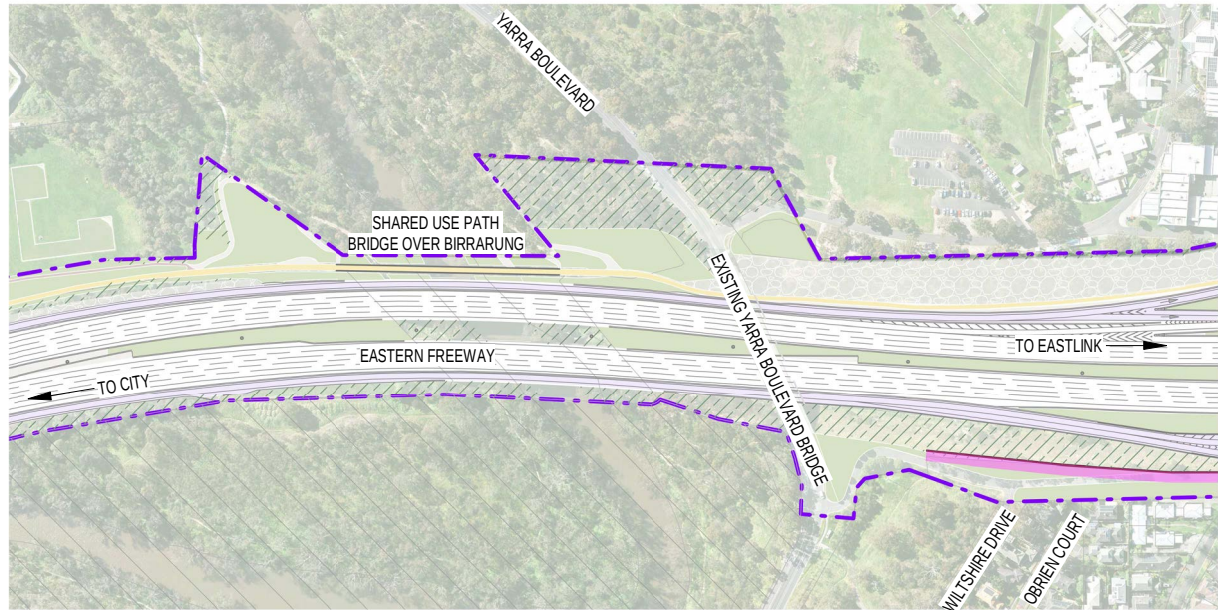
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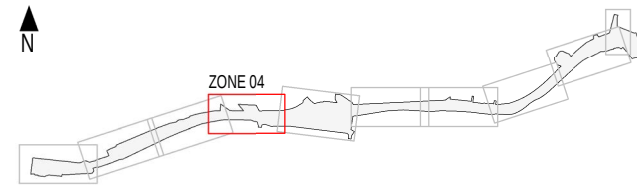
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SCALE 1 : 5000

NOTE:
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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
- NEW SHADOW
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN



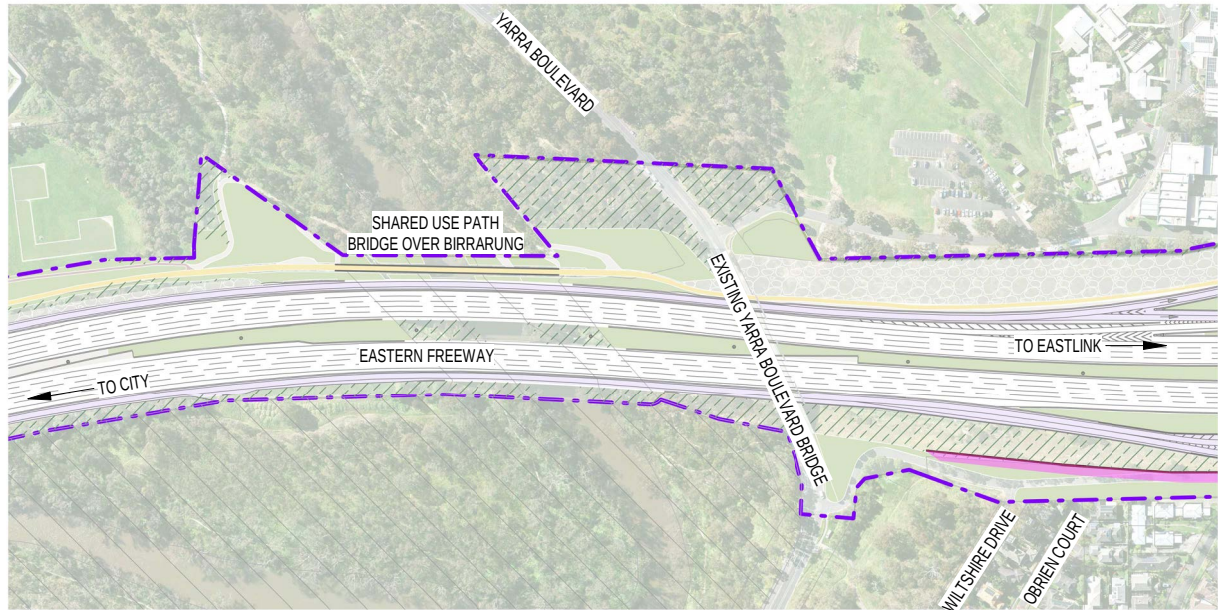
OVERSHADOWING DISCLAIMER NOTE:

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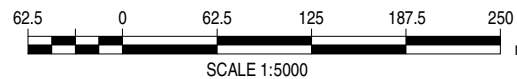
ASSUMED NOISE WALLS HEIGHTS:

NOISE WALLS HEIGHTS (RANGING FROM 2M TO 8M) ARE INDICATED ON DRAWING NO.S 9201 - 9210, BASED ON THE LATEST NOISE MODELLING AND ADVICE BY ACOUSTIC ENGINEERS. IT IS NOTED THAT THE NOMINAL NOISE WALL HEIGHTS MAY BE REDUCED SUBJECT TO FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF NOISE WALL STRATEGY, WHICH IN TURN REDUCES AMENITY IMPACTS, SUCH AS OVERSHADOWING.

IN LIGHT OF THE ABOVE AND TO ENSURE FULL COMPLIANCE WITH ENVIRONMENTAL PERFORMANCE REQUIREMENT (EPR) LAND USE PLANNING 4 (LP4), SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED NOISE WALL HEIGHT OF 8M WHICH IS THE 'WORSE CASE SCENARIO'



3 ZONE WIDE ANALYSIS: ZONE 04 - 22 SEP 3PM
SCALE 1 : 5000



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FOR INFORMATION

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1	ISSUED FOR APPROVAL	19/06/2026
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COORDINATE SYSTEM:

HEIGHT DATUM (m):

DRAWN:

BIG BUILD
EASTERN FREEWAY
Hoddle to Burke Alliance

SIZE:

SCALE: As indicated

VIDA
VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY

Protective Marking: OFFICIAL

CAD FILE:

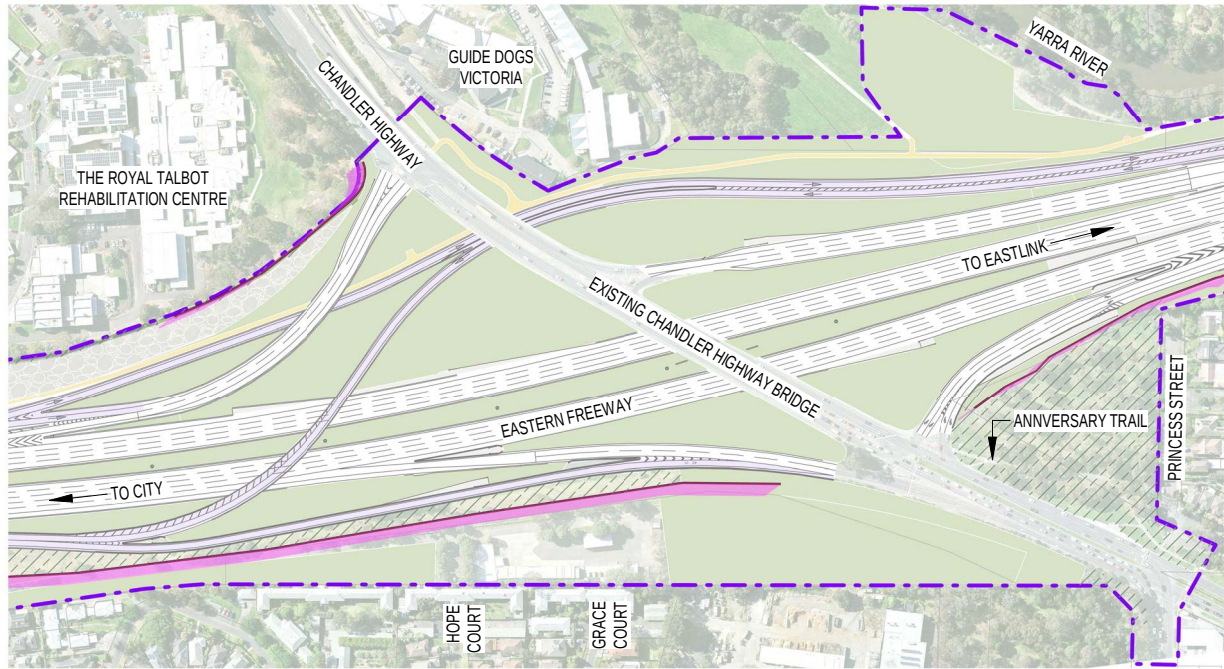
VICTORIA'S
BIG BUILD

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT
OVERSHADOWING ASSESSMENT
ZONE 04

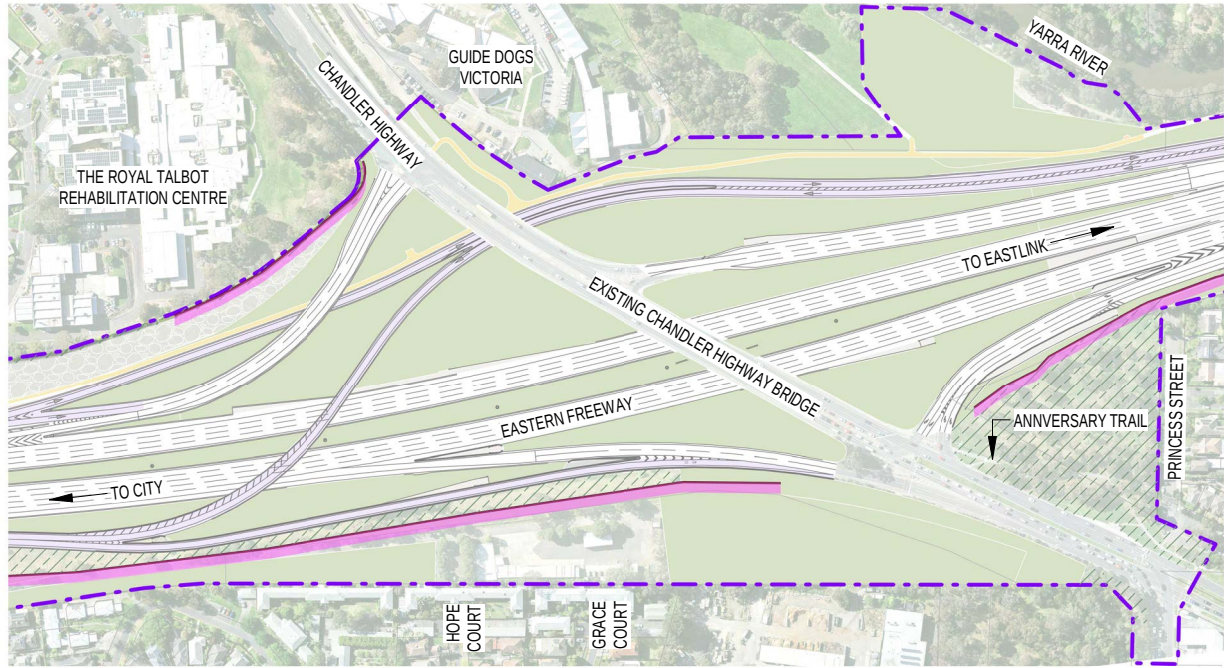
PROJECT CONTRACT:
WEST

NELP DRAWING No.:
NEL-WST-NWA-4100-UUD-DRG-9278

SUIT. CODE
REVISION
1



1 **ZONE WIDE ANALYSIS: ZONE 05 - 22 SEP 9AM**
SCALE 1 : 5000



2 **ZONE WIDE ANALYSIS: ZONE 05 - 22 SEP 12PM**
SCALE 1 : 5000

NOTE:
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LEGEND - OVERSHADOWING ANALYSIS

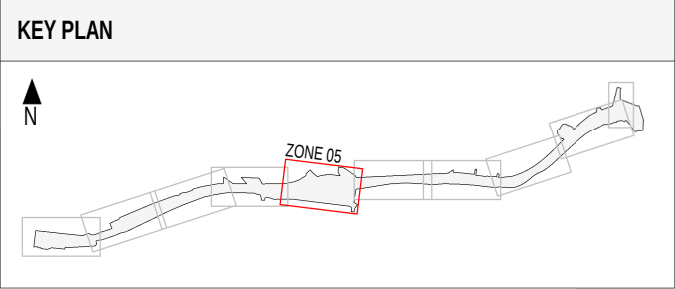
PROJECT BOUNDARY

PROPOSED NOISE WALL

NEW SHADOW

EXISTING NOISE WALLS

EXISTING SHADOW



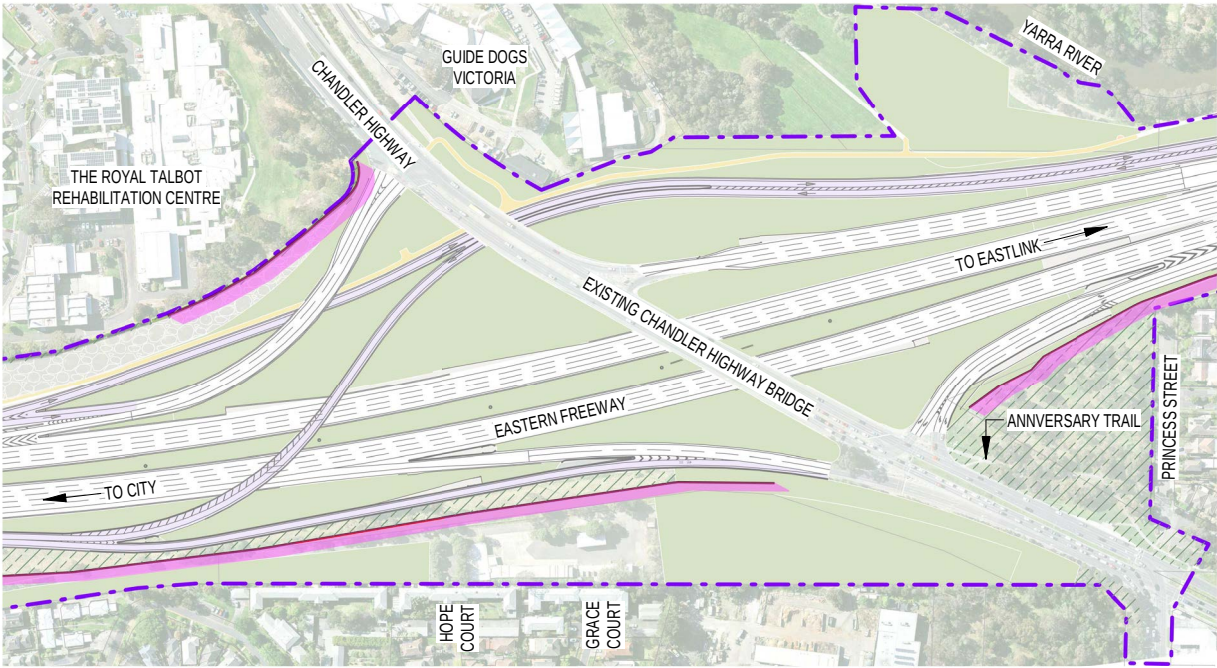
OVERSHADOWING DISCLAIMER NOTE:

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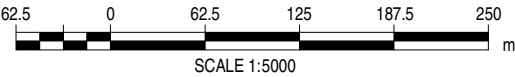
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3 **ZONE WIDE ANALYSIS: ZONE 05 - 22 SEP 3PM**
SCALE 1 : 5000



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1	ISSUED FOR APPROVAL	19/06/2026
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COORDINATE SYSTEM:	HEIGHT DATUM (m):
DRAWN:	SIZE:

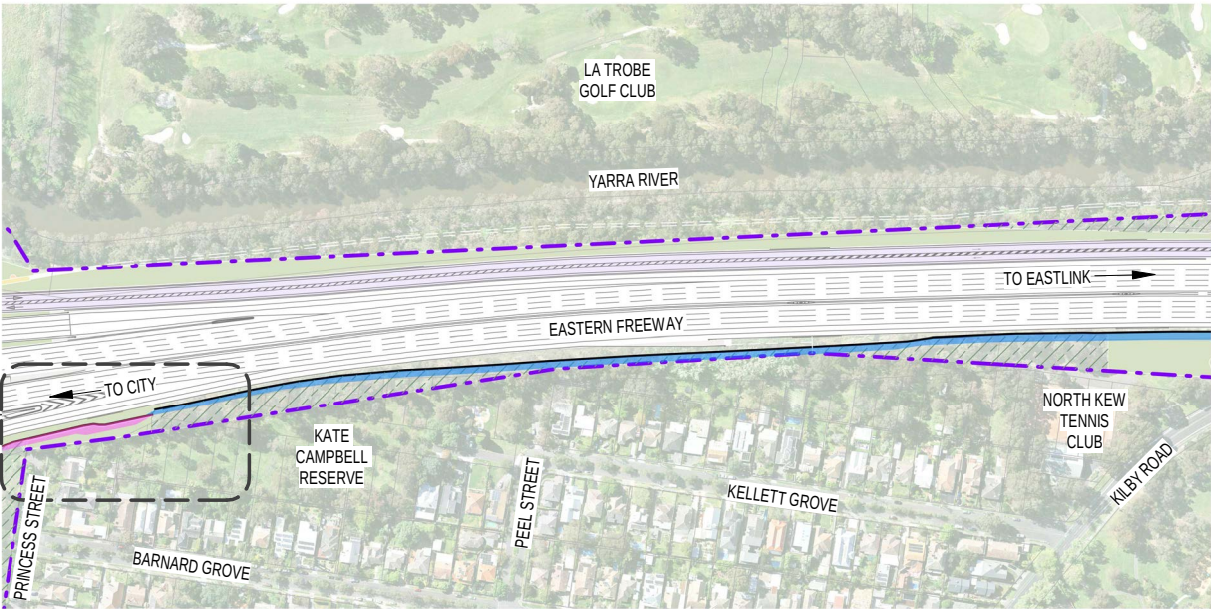
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BIG BUILD EASTERN FREEWAY	Hoddle to Burke Alliance
SCALE: As indicated	CAD FILE:

YIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	VICTORIA'S BIG BUILD
Protective Marking: OFFICIAL	

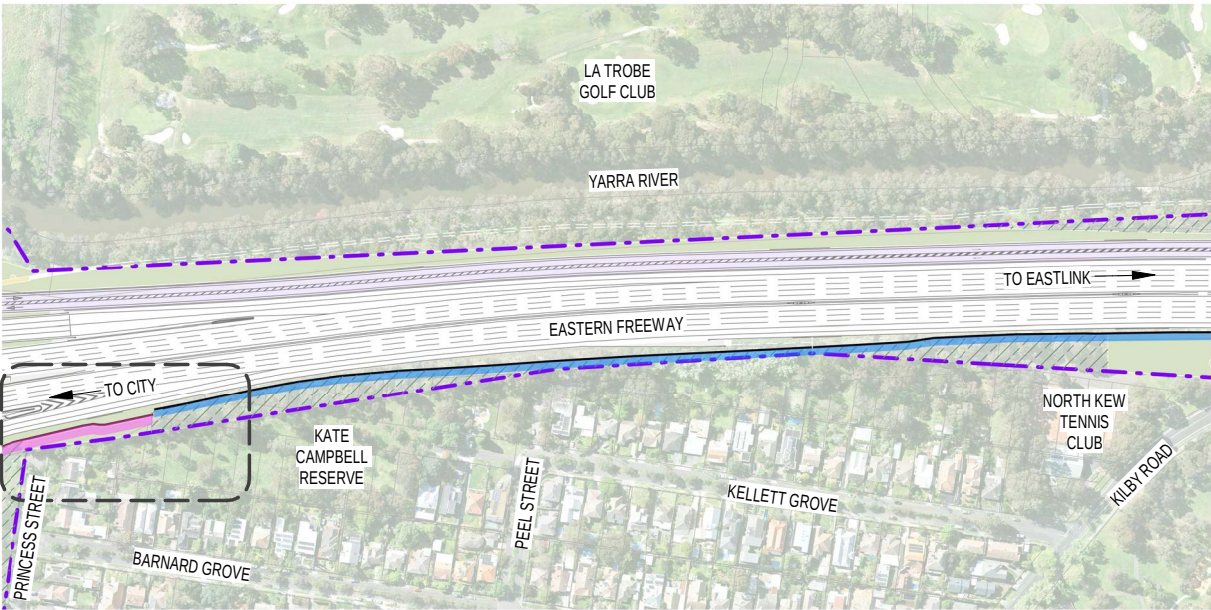
EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)			
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT			
OVERSHADOWING ASSESSMENT			
ZONE 05			
PROJECT CONTRACT: WEST	NELP DRAWING No.: NEL-WST-NWA-4100-UUD-DRG-9279	SUIT. CODE	REVISION 1

1
9285



1 **ZONE WIDE ANALYSIS: ZONE 06 - 22 SEP 9AM**
SCALE 1 : 5000

2
9285



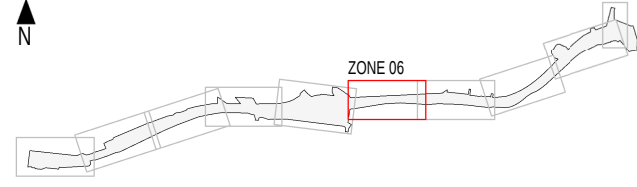
3 **ZONE WIDE ANALYSIS: ZONE 06 - 22 SEP 12PM**
SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
NEW SHADOW
- EXISTING NOISE WALLS
EXISTING SHADOW

KEY PLAN



OVERSHADOWING DISCLAIMER NOTE:

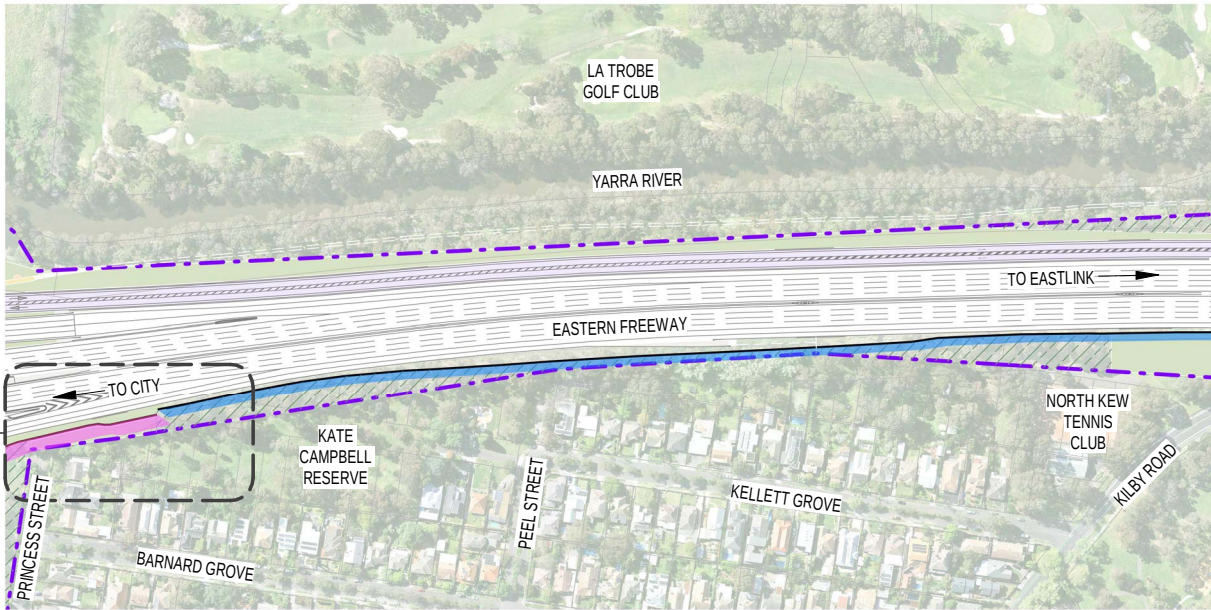
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ASSUMED NOISE WALLS HEIGHTS:

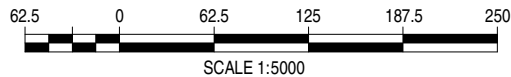
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3
9285



2 **ZONE WIDE ANALYSIS: ZONE 06 - 22 SEP 3PM**
SCALE 1 : 5000



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1	ISSUED FOR APPROVAL	19/06/2026
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COORDINATE SYSTEM:	
HEIGHT DATUM (m):	DRAWN:

Hoddle to Burke Alliance	
SIZE:	SCALE: As indicated

BIG BUILD EASTERN FREEWAY	VIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY
Protective Marking: OFFICIAL	CAD FILE:

VICTORIA'S BIG BUILD	
PROJECT CONTRACT: WEST	NELP DRAWING No.: NEL-WST-NWA-4200-UUD-DRG-9280

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)	
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT	
OVERSHADOWING ASSESSMENT	
ZONE 06	
SUIT. CODE	REVISION
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A

B

C

D

E

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H

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1 ZONE WIDE ANALYSIS: ZONE 07 - 22 SEP 9AM
SCALE 1 : 5000



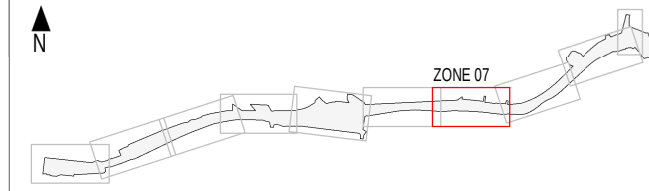
2 ZONE WIDE ANALYSIS: ZONE 07 - 22 SEP 12PM
SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
- NEW SHADOW
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN



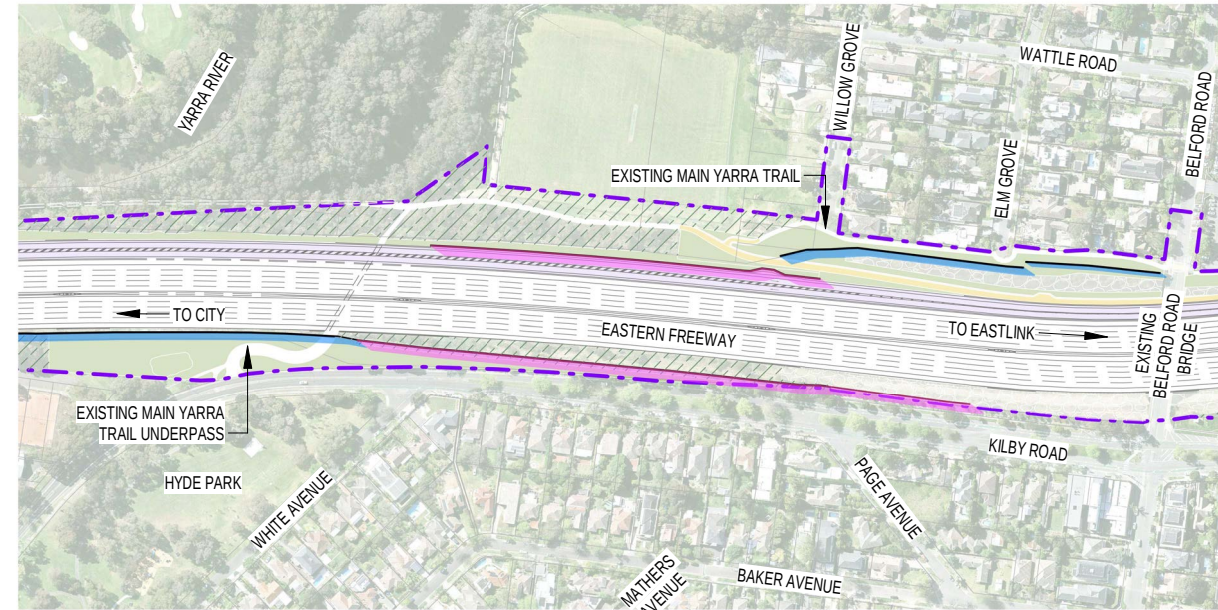
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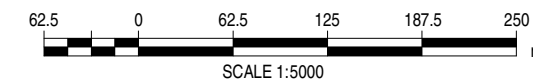
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3 ZONE WIDE ANALYSIS: ZONE 07 - 22 SEP 3PM
SCALE 1 : 5000



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COORDINATE SYSTEM:

HEIGHT DATUM (m):

DRAWN:

BIG BUILD
EASTERN FREEWAY
Hoddle to Burke Alliance

SIZE:

SCALE: As indicated



Protective Marking: OFFICIAL

CAD FILE:

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT
OVERSHADOWING ASSESSMENT
ZONE 07

PROJECT CONTRACT:

WEST

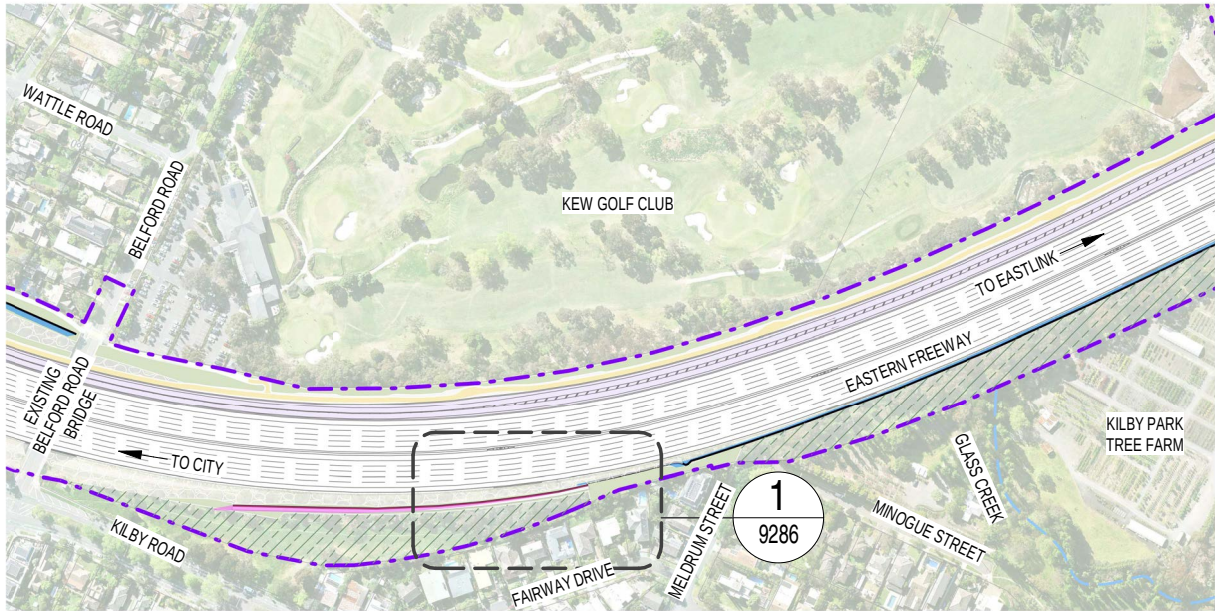
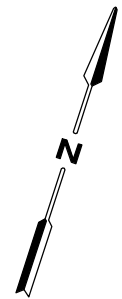
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NEL-WST-NWA-4200-UUD-DRG-9281

SUIT. CODE

REVISION

1



1 ZONE WIDE ANALYSIS: ZONE 08 - 22 SEP 9AM
SCALE 1 : 5000



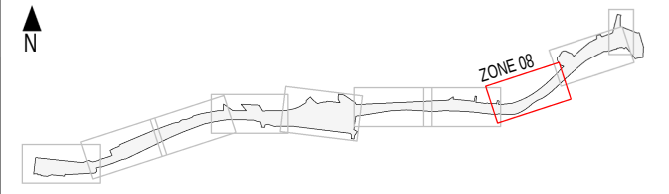
3 ZONE WIDE ANALYSIS: ZONE 08 - 22 SEP 12PM
SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
- NEW SHADOW
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN



OVERSHADOWING DISCLAIMER NOTE:

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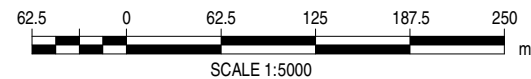
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2 ZONE WIDE ANALYSIS: ZONE 08 - 22 SEP 3PM
SCALE 1 : 5000



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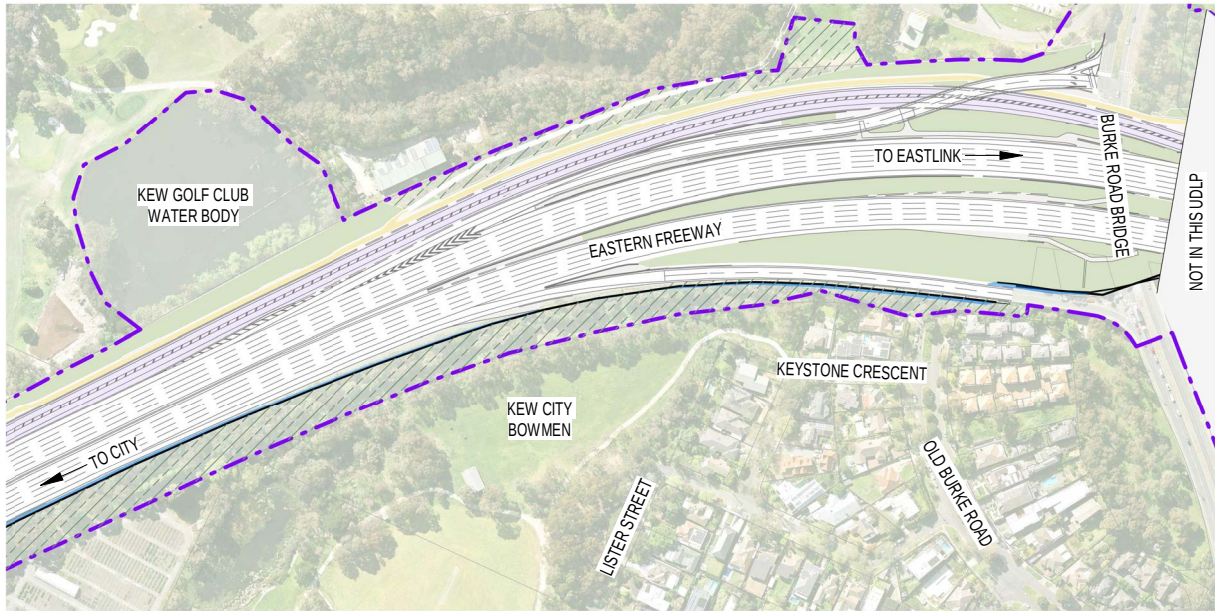
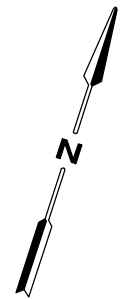
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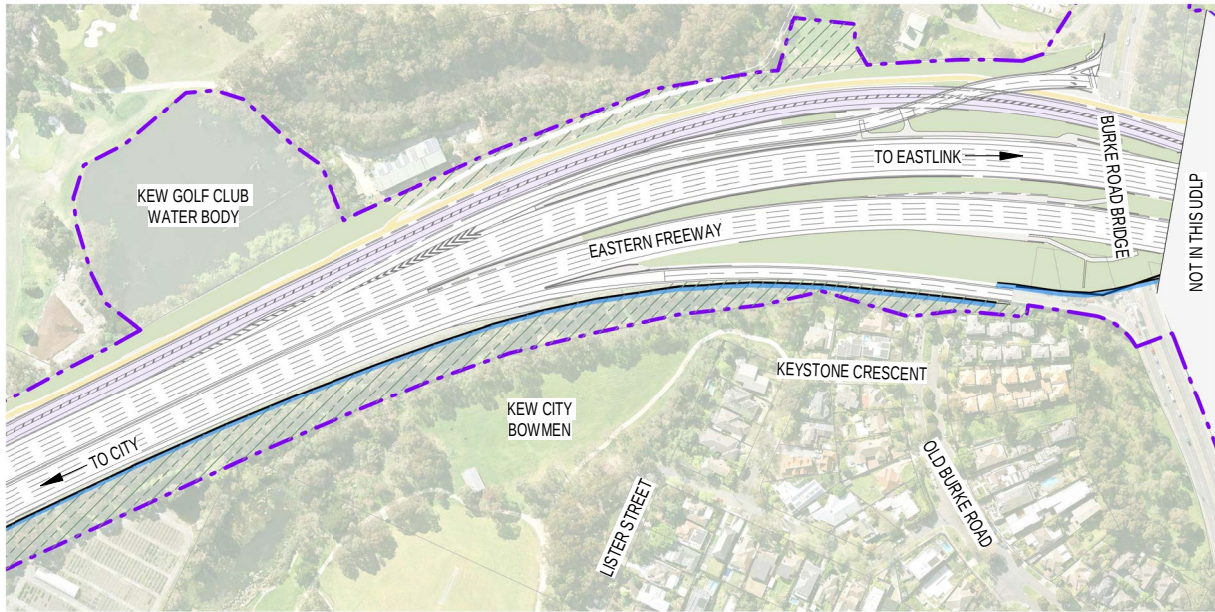
BIG BUILD EASTERN FREEWAY	
Hoddle to Burke Alliance	
SIZE:	SCALE: As indicated

VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	
Protective Marking:	OFFICIAL
CAD FILE:	

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)			
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT			
OVERSHADOWING ASSESSMENT			
ZONE 08			
PROJECT CONTRACT:	NELP DRAWING No.:	SUIT. CODE	REVISION
WEST	NEL-WST-NWA-4200-UUD-DRG-9282		1



1 ZONE WIDE ANALYSIS: ZONE 09 - 22 SEP 9AM
SCALE 1 : 5000



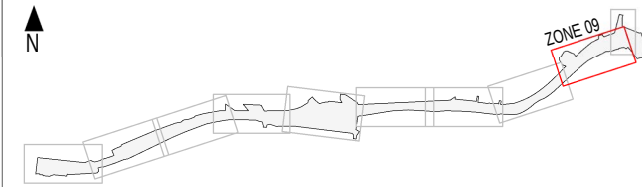
2 ZONE WIDE ANALYSIS: ZONE 09 - 22 SEP 12PM
SCALE 1 : 5000

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LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN

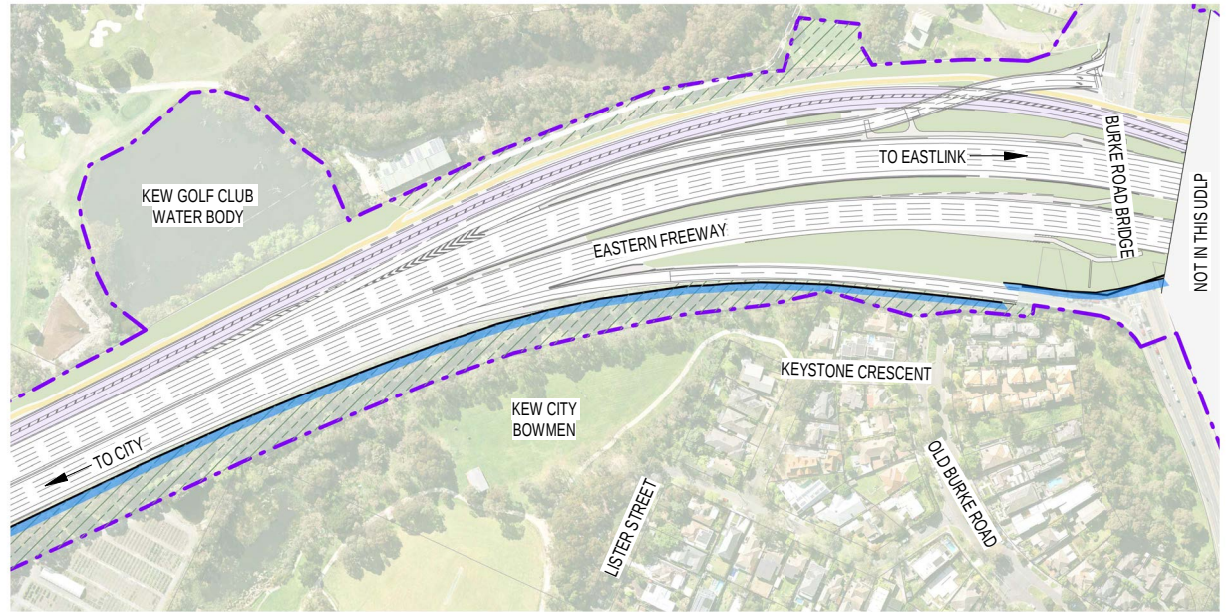


OVERSHADOWING DISCLAIMER NOTE:

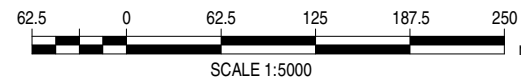
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSE OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH HAS GANTRIES, LIGHT POLES, AND LOW HEIGHT RETAINING WALLS. THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE SURVEY OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS. SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES WILL BE CONSULTED.

NO PROPOSED NOISE WALLS:

NO NEW NOISE WALLS ARE PROPOSED WITHIN THIS ZONE. THE OVERSHADOWING ASSESSMENT SHOWS NO NEW IMPACT TO SURROUNDING PROPERTIES.



3 ZONE WIDE ANALYSIS: ZONE 09 - 22 SEP 3PM
SCALE 1 : 5000



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FOR INFORMATION

DTP No.:

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1	ISSUED FOR APPROVAL	19/06/2026
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DRAWN:	SIZE:

BIG BUILD EASTERN FREEWAY	Hoddle to Burke Alliance
SCALE: As indicated	CAD FILE:

VIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	VICTORIA'S BIG BUILD
Protective Marking: OFFICIAL	PROJECT CONTRACT: WEST

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)			
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT			
OVERSHADOWING ASSESSMENT			
ZONE 09			
NELP DRAWING No.:	SUIT. CODE	REVISION	
NEL-WST-NWA-4200-UUD-DRG-9283		1	

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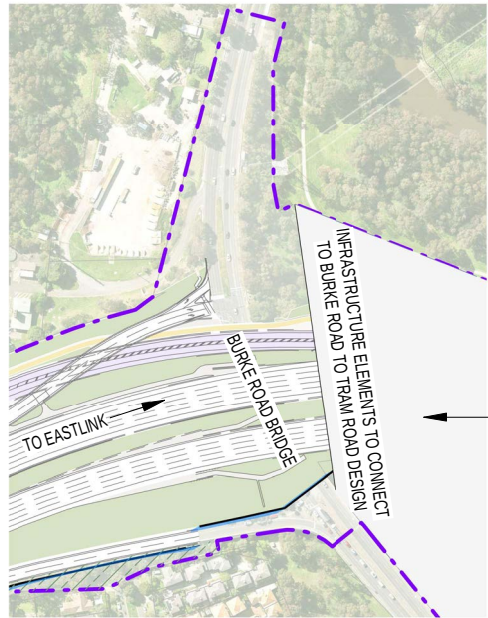
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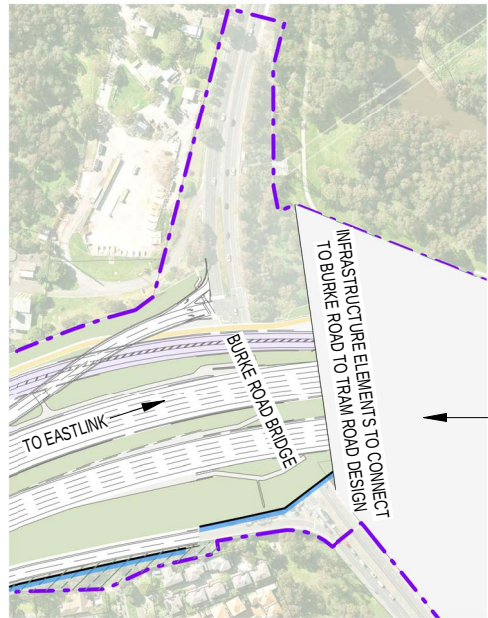
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1 ZONE WIDE ANALYSIS: ZONE 10 - 22 SEP 9AM
SCALE 1 : 5000



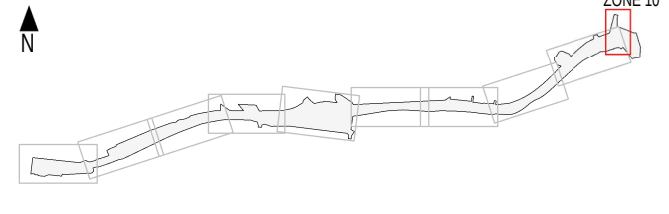
2 ZONE WIDE ANALYSIS: ZONE 10 - 22 SEP 12PM
SCALE 1 : 5000

NOTE:
THE ALIGNMENT, LOCATION, DESIGN AND MATERIALS OF GANTRIES, BARRIERS, FENCES, NOISE WALLS, PIERS, RETAINING WALLS, SCREENS AND OTHER BRIDGE ELEMENTS ARE SUBJECT TO CHANGE DUE TO DESIGN DEVELOPMENT, ENGINEERING ADVICE AND TECHNICAL REQUIREMENTS.

LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- EXISTING NOISE WALLS
- EXISTING SHADOW

KEY PLAN

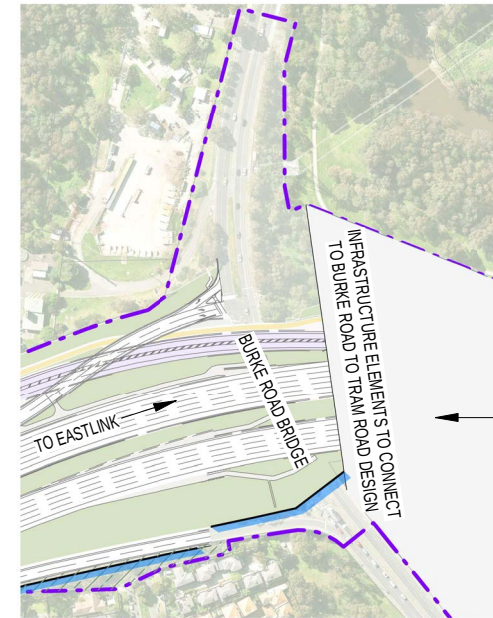


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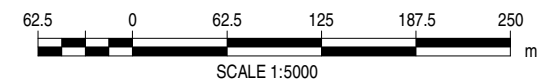
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSE OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH HAS GANTRIES, LIGHT POLES, AND LOW HEIGHT RETAINING WALLS. THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE SURVEY OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS. SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES WILL BE CONSULTED.

NO PROPOSED NOISE WALLS:

NO NEW NOISE WALLS ARE PROPOSED WITHIN THIS ZONE. THE OVERSHADOWING ASSESSMENT SHOWS NO NEW IMPACT TO SURROUNDING PROPERTIES.



3 ZONE WIDE ANALYSIS: ZONE 10 - 22 SEP 3PM
SCALE 1 : 5000



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1	ISSUED FOR APPROVAL	19/06/2026
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HEIGHT DATUM (m):	DRAWN:

BIG BUILD EASTERN FREEWAY	Hoddle to Burke Alliance
	SCALE: As indicated

YIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	VICTORIA'S BIG BUILD
Protective Marking: OFFICIAL	
CAD FILE:	

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)			
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT			
OVERSHADOWING ASSESSMENT			
ZONE 10			
PROJECT CONTRACT: WEST	NELP DRAWING No.: NEL-WST-NWA-4200-UUD-DRG-9284	SUIT. CODE	REVISION 1

Autodesk Docs\\NELP\\EH\\B\\NEL-WST-DCM-4890-UUD-MDG-GEN-7000.rvt

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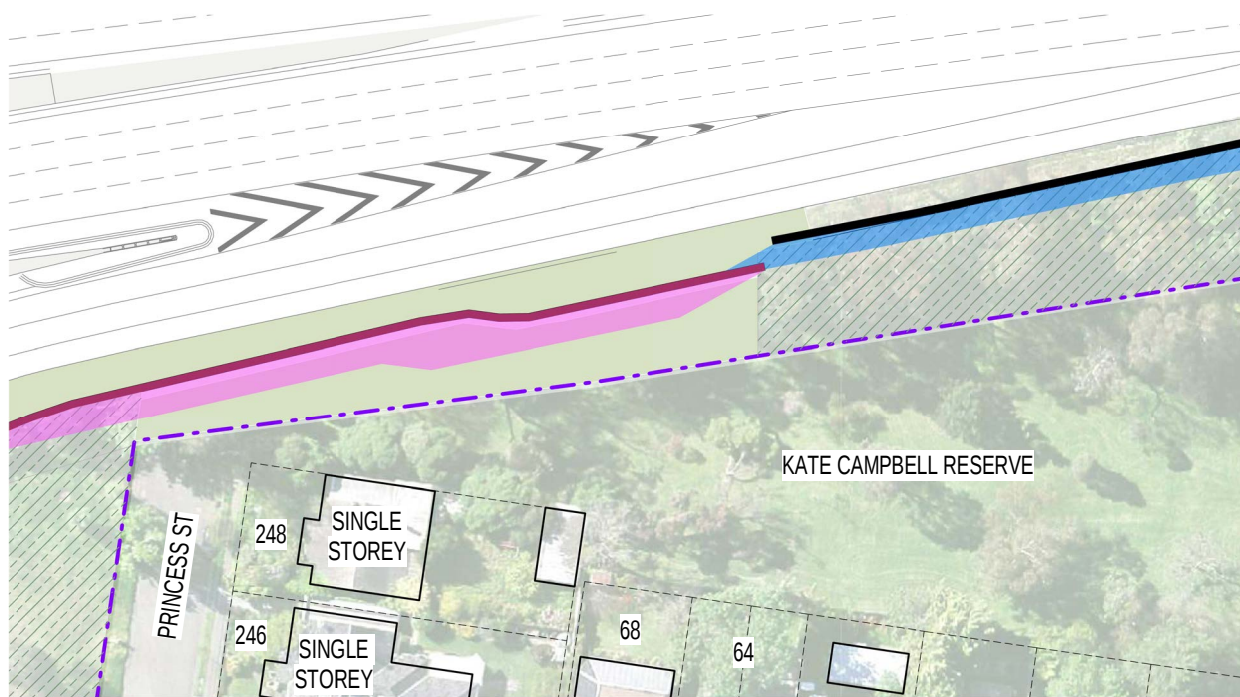
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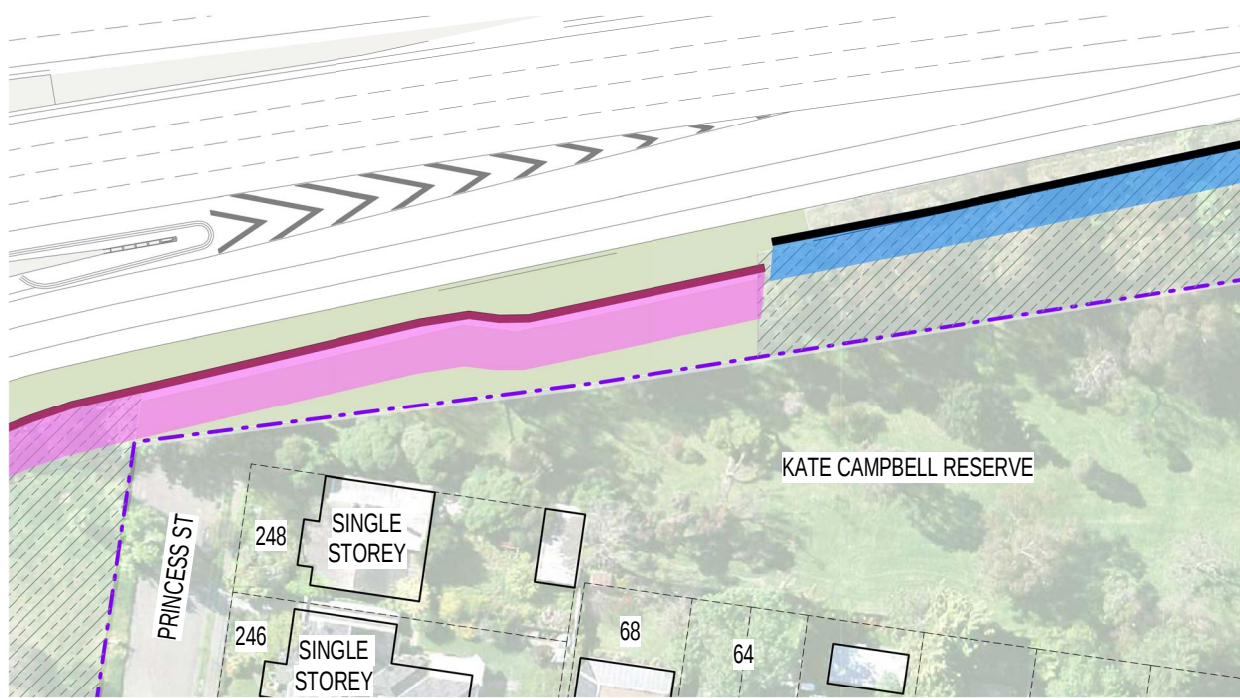
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01 FOCUSED ANALYSIS: PRINCESS STREET AREA - 22 SEP 9AM
SCALE 1 : 1000

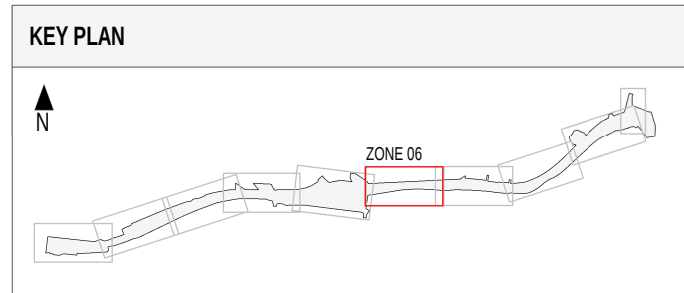


01 FOCUSED ANALYSIS: PRINCESS STREET AREA - 22 SEP 12PM
SCALE 1 : 1000

NOTE:
1. FOCUSED ANALYSIS PROVIDES A ZOOMED-IN ANALYSIS OF LOCATIONS WHERE THE OVERSHADOWING IMPACT IS WITHIN 6 METRES OF RESIDENTIAL PROPERTIES. THIS ANALYSIS CONFIRMS COMPLIANCE WITH EPR LP4 AS THERE ARE NO NEW OVERSHADOWING IMPACTS TO RESIDENTIAL PROPERTIES AS A RESULT OF THE PROJECT.
2. THE ALIGNMENT, LOCATION, DESIGN AND MATERIALS OF GANTRIES, BARRIERS, FENCES, NOISE WALLS, PIERS, RETAINING WALLS, SCREENS AND OTHER BRIDGE ELEMENTS ARE SUBJECT TO CHANGE DUE TO DESIGN DEVELOPMENT, ENGINEERING ADVICE AND TECHNICAL REQUIREMENTS.

LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
NEW SHADOW
- EXISTING NOISE WALLS
EXISTING SHADOW



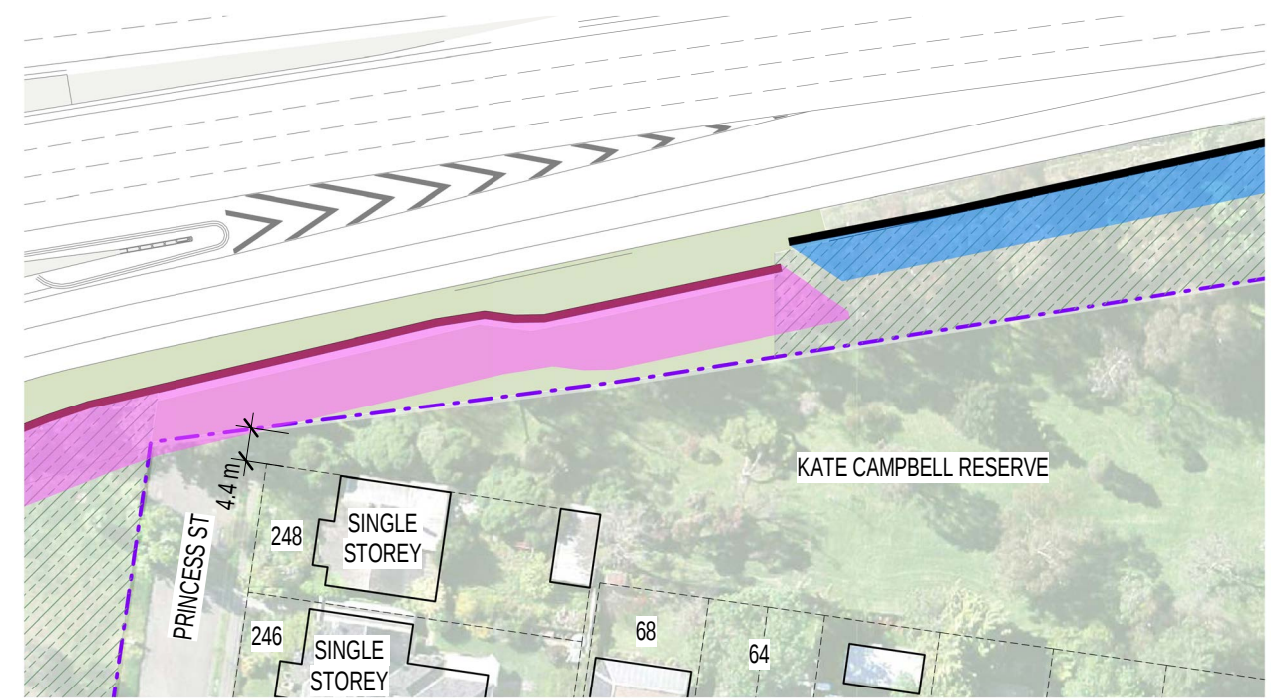
OVERSHADOWING DISCLAIMER NOTE:

OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSE OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH HAS GANTRIES, LIGHT POLES, AND LOW HEIGHT RETAINING WALLS. THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE SURVEY OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS. SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES WILL BE CONSULTED.

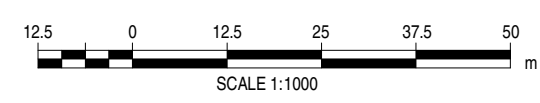
ASSUMED NOISE WALLS HEIGHTS:

NOISE WALLS HEIGHTS (RANGING FROM 2M TO 8M) ARE INDICATED ON DRAWING NO.S 9201 - 9210, BASED ON THE LATEST NOISE MODELLING AND ADVICE BY ACOUSTIC ENGINEERS. IT IS NOTED THAT THE NOMINAL NOISE WALL HEIGHTS MAY BE REDUCED SUBJECT TO FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF NOISE WALL STRATEGY, WHICH IN TURN REDUCES AMENITY IMPACTS, SUCH AS OVERSHADOWING.

IN LIGHT OF THE ABOVE AND TO ENSURE FULL COMPLIANCE WITH ENVIRONMENTAL PERFORMANCE REQUIREMENT (EPR) LAND USE PLANNING 4 (LP4), SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED NOISE WALL HEIGHT OF 8M WHICH IS THE 'WORSE CASE SCENARIO'



01 FOCUSED ANALYSIS: PRINCESS STREET AREA - 22 SEP 3PM
SCALE 1 : 1000



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COORDINATE SYSTEM:
HEIGHT DATUM (m): DRAWN: SIZE: SCALE: As indicated CAD FILE:

BIG BUILD
EASTERN FREEWAY

Hoddle to Burke Alliance

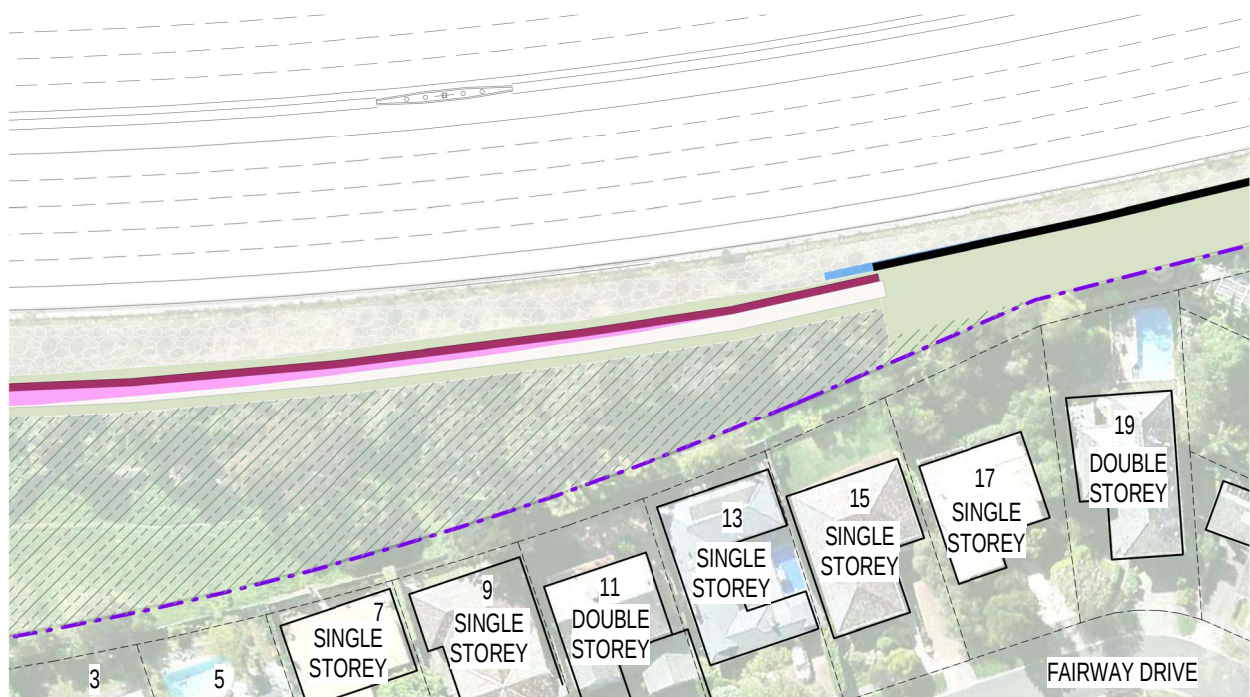
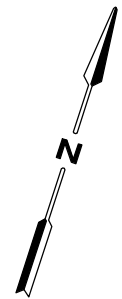
YIDA VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY

Protective Marking: **OFFICIAL**

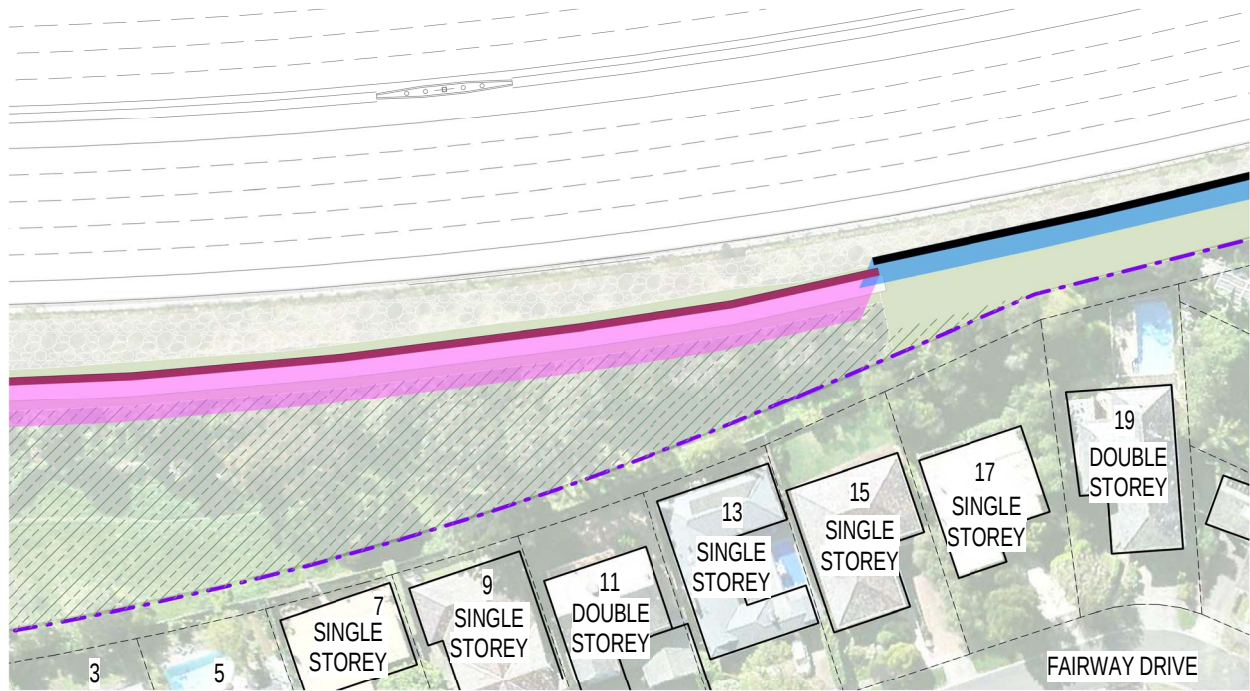
EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)

ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT
FOCUSED ANALYSIS
PRINCESS STREET AREA

PROJECT CONTRACT: WEST	NELP DRAWING No.: NEL-WST-NWA-4200-UUD-DRG-9285	SUIT. CODE	REVISION 1
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02 FOCUSED ANALYSIS: FAIRWAY DRIVE AREA - 22 SEP 9AM
SCALE 1 : 1000

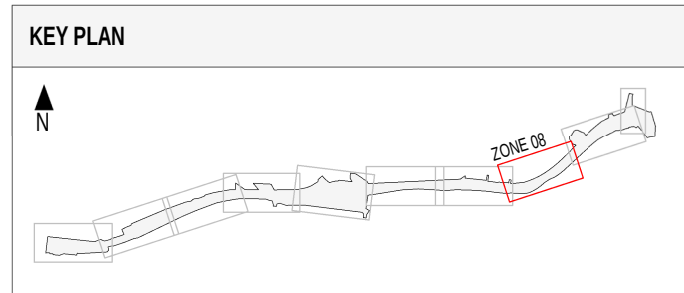


02 FOCUSED ANALYSIS: FAIRWAY DRIVE AREA - 22 SEP 12PM
SCALE 1 : 1000

- NOTE:
1. FOCUSED ANALYSIS PROVIDES A ZOOMED-IN ANALYSIS OF LOCATIONS WHERE THE OVERSHADOWING IMPACT IS WITHIN 6 METRES OF RESIDENTIAL PROPERTIES. THIS ANALYSIS CONFIRMS COMPLIANCE WITH EPR LP4 AS THERE ARE NO NEW OVERSHADOWING IMPACTS TO RESIDENTIAL PROPERTIES AS A RESULT OF THE PROJECT.
 2. THE ALIGNMENT, LOCATION, DESIGN AND MATERIALS OF GANTRIES, BARRIERS, FENCES, NOISE WALLS, PIERS, RETAINING WALLS, SCREENS AND OTHER BRIDGE ELEMENTS ARE SUBJECT TO CHANGE DUE TO DESIGN DEVELOPMENT, ENGINEERING ADVICE AND TECHNICAL REQUIREMENTS.

LEGEND - OVERSHADOWING ANALYSIS

- PROJECT BOUNDARY
- PROPOSED NOISE WALL
- NEW SHADOW
- EXISTING NOISE WALLS
- EXISTING SHADOW



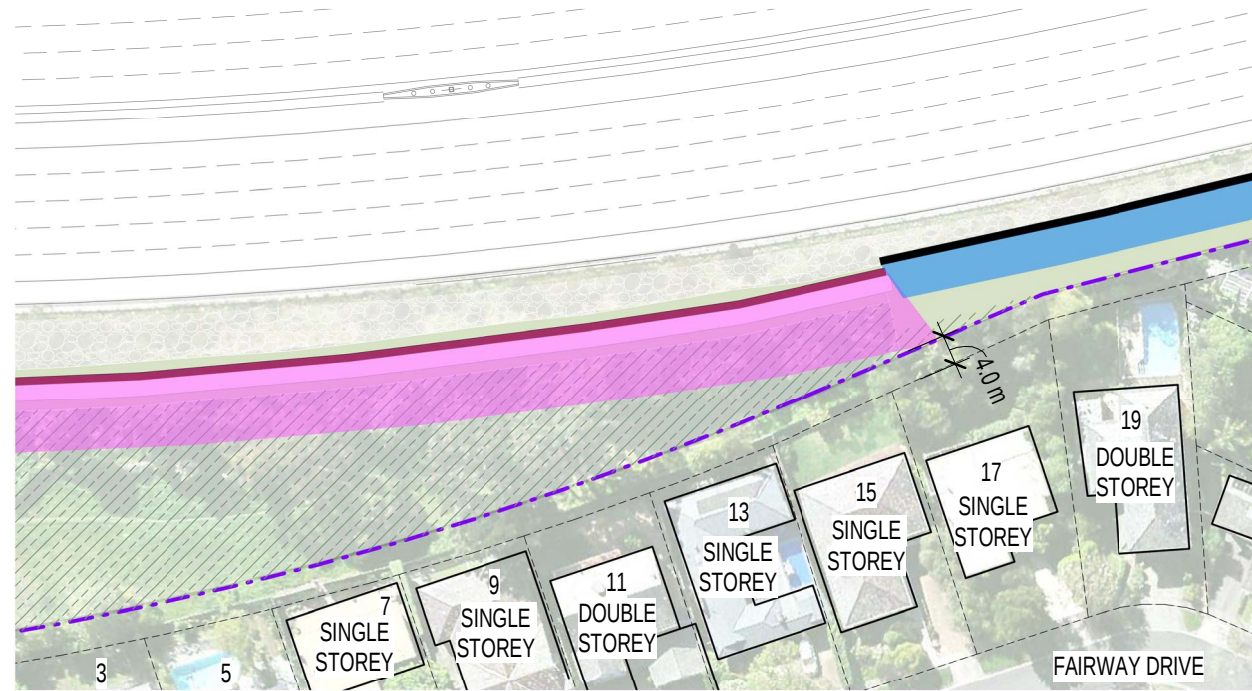
OVERSHADOWING DISCLAIMER NOTE:

OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSE OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH HAS GANTRIES, LIGHT POLES, AND LOW HEIGHT RETAINING WALLS. THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE SURVEY OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS. SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES WILL BE CONSULTED.

ASSUMED NOISE WALLS HEIGHTS:

NOISE WALLS HEIGHTS (RANGING FROM 2M TO 8M) ARE INDICATED ON DRAWING NO.S 9201 - 9210, BASED ON THE LATEST NOISE MODELLING AND ADVICE BY ACOUSTIC ENGINEERS. IT IS NOTED THAT THE NOMINAL NOISE WALL HEIGHTS MAY BE REDUCED SUBJECT TO FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF NOISE WALL STRATEGY, WHICH IN TURN REDUCES AMENITY IMPACTS, SUCH AS OVERSHADOWING.

IN LIGHT OF THE ABOVE AND TO ENSURE FULL COMPLIANCE WITH ENVIRONMENTAL PERFORMANCE REQUIREMENT (EPR) LAND USE PLANNING 4 (LP4), SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED NOISE WALL HEIGHT OF 8M WHICH IS THE 'WORSE CASE SCENARIO'



02 FOCUSED ANALYSIS: FAIRWAY DRIVE AREA - 22 SEP 3PM
SCALE 1 : 1000

12.5 0 12.5 25 37.5 50 m
SCALE 1:1000

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1	ISSUED FOR APPROVAL	19/06/2026	COORDINATE SYSTEM:			PROJECT CONTRACT: WEST		
0.01	ISSUED FOR REVIEW	02/03/2026	HEIGHT DATUM (m):			NELP DRAWING No.: NEL-WST-NWA-4200-UUD-DRG-9286		
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REV.	DESCRIPTION	DATE	SIZE:			REVISION		
REVISIONS			SCALE: As indicated			1		
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1 ALIGNMENT PLAN
SCALE 1 : 16000

LEGEND - OVERLOOKING ALIGNMENT KEY PLAN

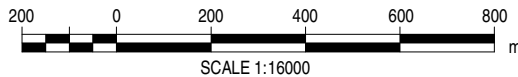
- PROJECT BOUNDARY
- FOCUSSED ANALYSIS
- LANDSCAPE TREATMENTS - REFER TO ATTACHMENT 2 FOR ELEMENTS AND DETAILS

KEY	LOCATION
03	FOCUSSED ANALYSIS: SHARED USE PATH BRIDGE OVER BIRRARUNG (REFER TO DRG 9287)
04	FOCUSSED ANALYSIS: WESTBOUND BUSWAY BRIDGE (REFER TO DRG 9288)

NOTE:

1. OVERLOOKING ANALYSIS IS PROVIDED FOR ALL NEW ELEVATED STRUCTURES. THE OVERLOOKING ANALYSIS CONFIRMS COMPLIANCE WITH EPR LP4 WITH NO OVERLOOKING IMPACTS TO RESIDENTIAL PROPERTIES AS A RESULT OF THE PROJECT.

2. THE ALIGNMENT, LOCATION, DESIGN AND MATERIALS OF GANTRIES, BARRIERS, FENCES, NOISE WALLS, PIERS, RETAINING WALLS, SCREENS AND OTHER BRIDGE ELEMENTS ARE SUBJECT TO CHANGE DUE TO DESIGN DEVELOPMENT, ENGINEERING ADVICE AND TECHNICAL REQUIREMENTS.



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COORDINATE SYSTEM:	HEIGHT DATUM (m):
DRAWN:	SIZE:

BIG BUILD	EASTERN FREEWAY
Hoddle to Burke Alliance	
SCALE:	As indicated

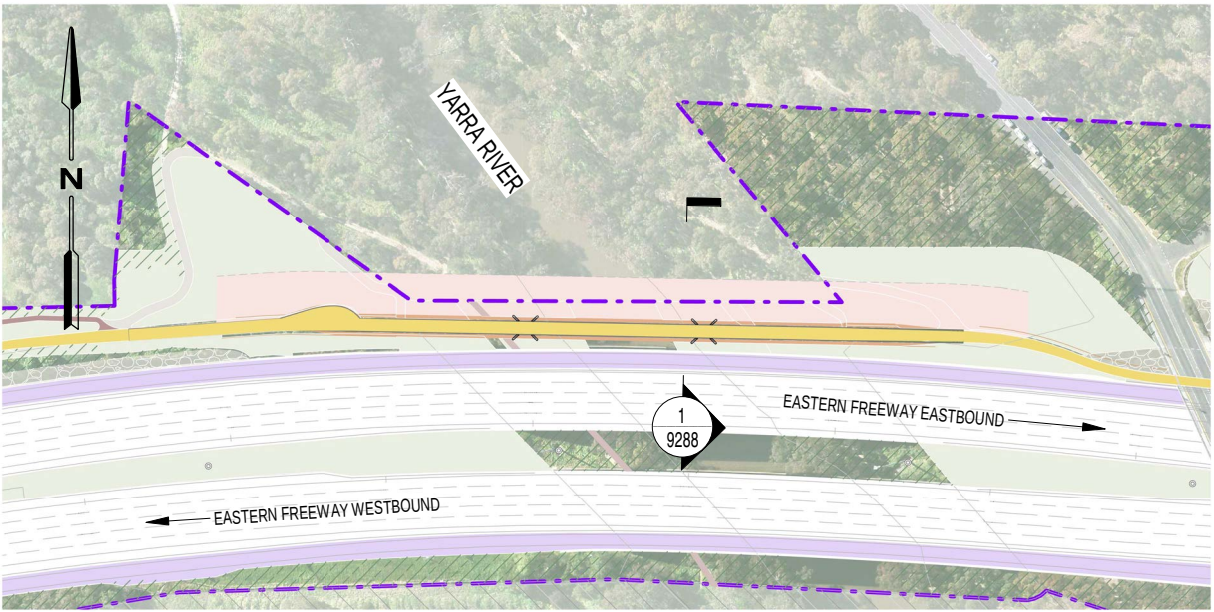
VIDA	VICTORIAN INFRASTRUCTURE DELIVERY AUTHORITY	VICTORIA'S BIG BUILD
Protective Marking:	OFFICIAL	
CAD FILE:		

EASTERN FREEWAY UPGRADES (HODDLE TO BURKE)			
ATTACHMENT 4: OVERSHADOWING AND OVERLOOKING ASSESSMENT FOCUSED ANALYSIS ALIGNMENT PLAN			
PROJECT CONTRACT:	NELP DRAWING No.:	SUIT. CODE	REVISION
WEST	NEL-WST-NWA-4990-UUD-DRG-9287		1

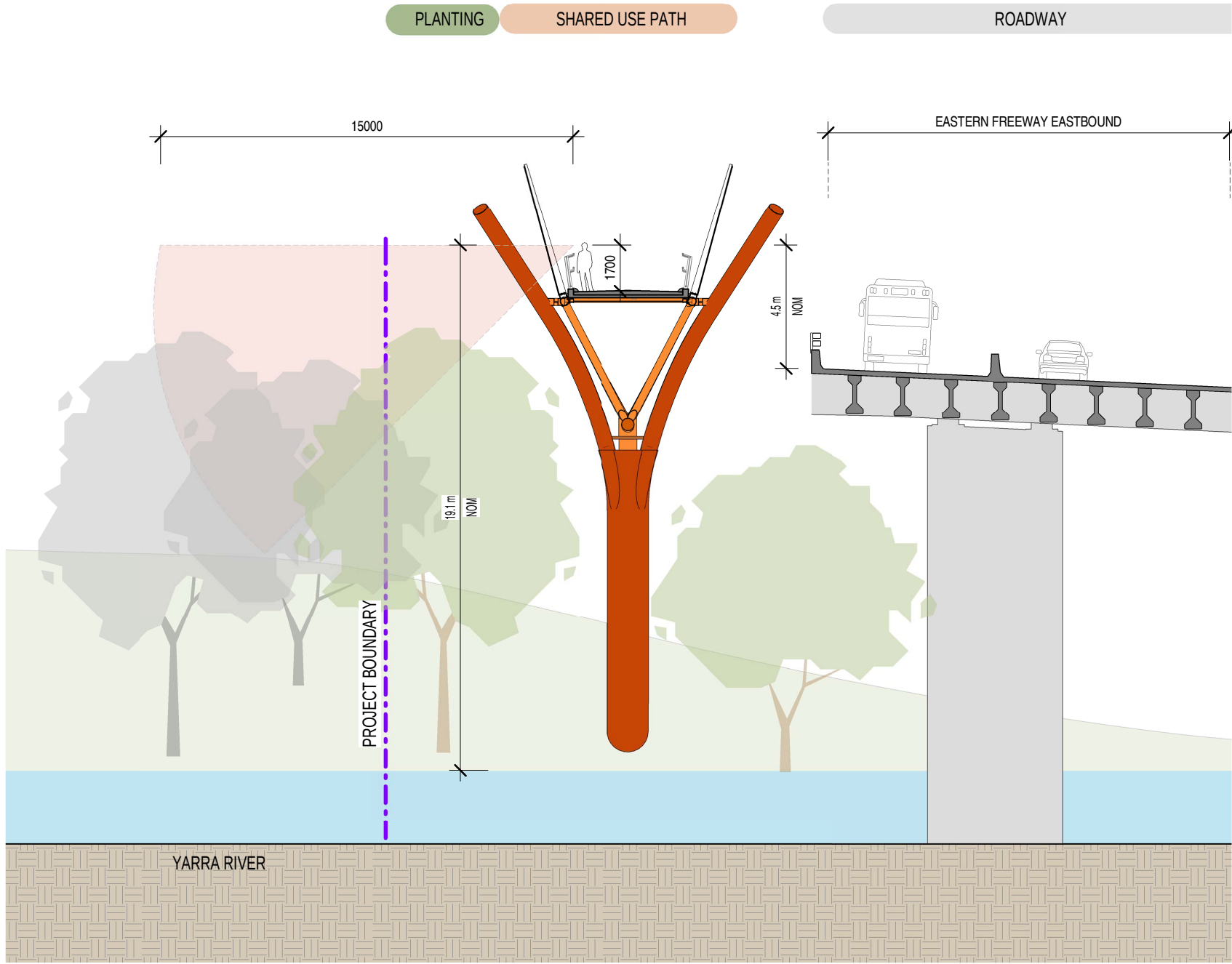
OVERLOOKING ANALYSIS

FOCUSED ANALYSIS OF SHARED USE PATH BRIDGE OVER BIRRARUNG SHOWS NO OVERLOOKING OF SECLUDED OPEN SPACE OR HABITABLE ROOM WINDOWS OF RESIDENTIAL PROPERTIES. NO PROPOSED MITIGATION MEASURES ARE REQUIRED. BASED ON THE ANALYSIS UNDERTAKEN, THIS FOCUSED AREA IS COMPLIANT WITH THE OVERLOOKING REQUIREMENTS OF EPR LP4 WHICH REQUIRES CONSIDERATION OF OVERLOOKING, ESPECIALLY WITHIN A DISTANCE OF 15m.

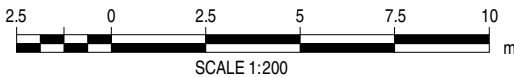
NOTE:
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03 FOCUSED ANALYSIS: SHARED USE PATH BRIDGE OVER BIRRARUNG PLAN
SCALE 1 : 2500



1 FOCUSED ANALYSIS: SHARED USE PATH BRIDGE OVER BIRRARUNG BRIDGE SECTION
SCALE 1 : 200



LEGEND - OVERLOOKING ANALYSIS

15m PROJECT BOUNDARY

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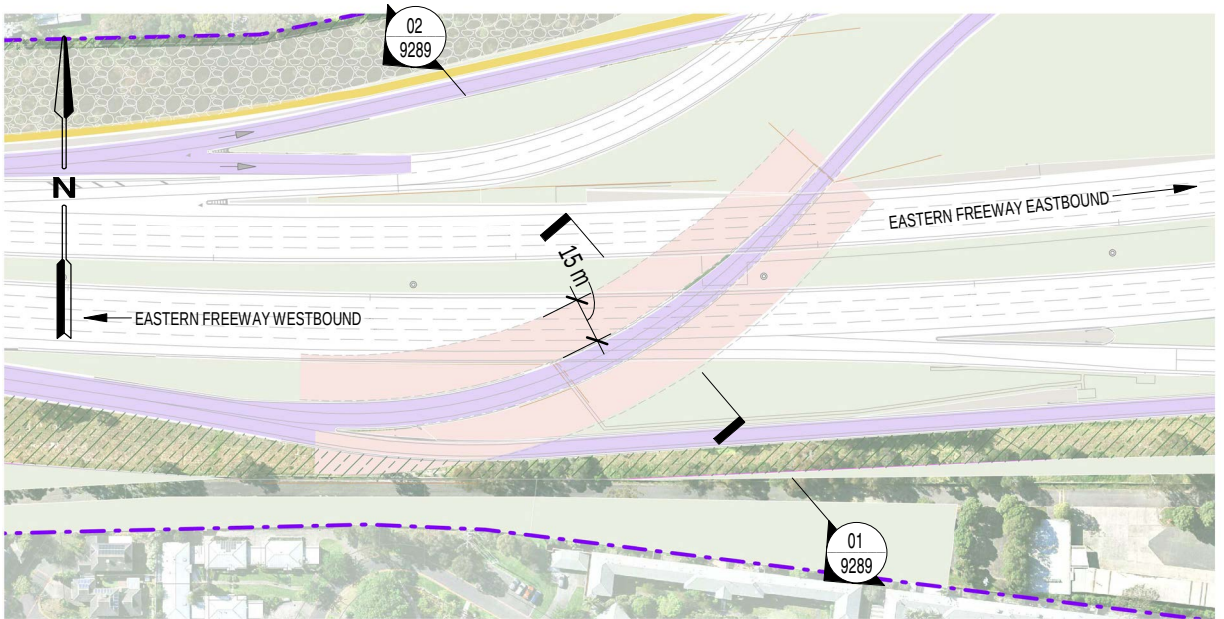
DTP No.:

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			COORDINATE SYSTEM:			SHARED USE PATH BRIDGE OVER BIRRARUNG		
			HEIGHT DATUM (m):			PROJECT CONTRACT:		
			DRAWN:			WEST		
			SIZE:			NELP DRAWING No.:		
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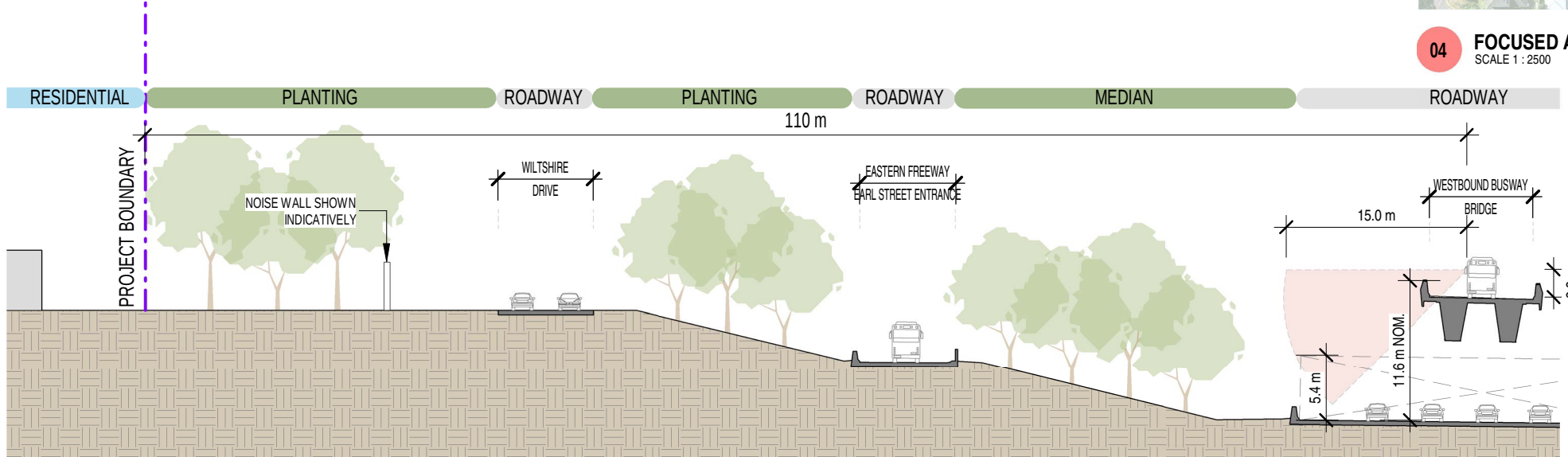
OVERLOOKING ANALYSIS

FOCUSED ANALYSIS OF WESTBOUND BUSWAY BRIDGE SHOWS NO OVERLOOKING OF SECLUDED OPEN SPACE OR HABITABLE ROOM WINDOWS OF RESIDENTIAL PROPERTIES. WESTBOUND BUSWAY BRIDGE DOES NOT ALLOW FOR PEDESTRIAN OR CYCLING ACCESS. SEATED EYE LEVEL ON BUS IS APPROXIMATED AT 2.3-METRES. NO PROPOSED MITIGATION MEASURES ARE REQUIRED. BASED ON THE ANALYSIS UNDERTAKEN, THIS FOCUSED AREA IS COMPLIANT WITH THE OVERLOOKING REQUIREMENTS OF EPR LP4 WHICH REQUIRES CONSIDERATION OF OVERLOOKING, ESPECIALLY WITHIN A DISTANCE OF 15m.

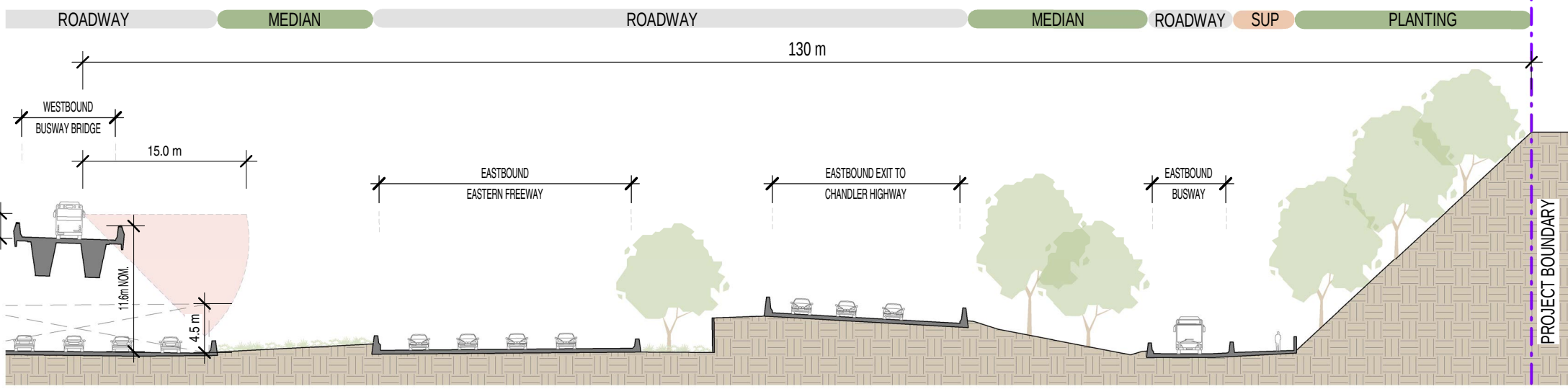
NOTE:
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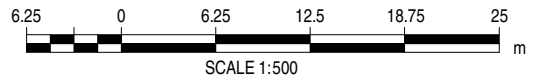
04 FOCUSED ANALYSIS: WESTBOUND BUSWAY BRIDGE PLAN
SCALE 1 : 2500



01 FOCUSED ANALYSIS: WESTBOUND BUSWAY BRIDGE SECTION 01
SCALE 1 : 500



02 FOCUSED ANALYSIS: WESTBOUND BUSWAY BRIDGE SECTION 02
SCALE 1 : 500



LEGEND - OVERLOOKING ANALYSIS

15m

PROJECT BOUNDARY

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DTP No.:

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			COORDINATE SYSTEM:			FOCUSED ANALYSIS		
			HEIGHT DATUM (m):			WESTBOUND BUSWAY BRIDGE		
			DRAWN:			PROJECT CONTRACT:		
			SIZE:			WEST		
			SCALE:			NELP DRAWING No.:		
			Hoddle to Burke Alliance			NEL-WST-NWA-4100-UUD-DRG-9289		
			Protective Marking: OFFICIAL			SUIT. CODE		
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