



**NORTH
EAST LINK**
PROGRAM

Approved SIZ content
and design detail from
NEL Tunnels UDLP
has been TRANSFERRED
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Attachment 1: Architecture & Urban Design

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NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 1 - ARCHITECTURE & URBAN DESIGN SOUTHERN VENTILATION STRUCTURE



DRAWING NUMBER	TITLE
NEL-CNT-WMI-2990-UUD-DRG-0060	UDLP SOUTHERN VENTILATION STRUCTURE COVER SHEET
NEL-CNT-WMI-2990-UUD-DRG-0061	UDLP SOUTHERN VENTILATION STRUCTURE CONTEXTUAL PLAN
NEL-CNT-WMI-2990-UUD-DRG-0062	UDLP SOUTHERN VENTILATION STRUCTURE GENERAL ARRANGEMENT SITE PLAN
NEL-CNT-WMI-2990-UUD-DRG-0063	UDLP SOUTHERN VENTILATION STRUCTURE BASEMENT OVERALL PLAN
NEL-CNT-WMI-2990-UUD-DRG-0064	UDLP SOUTHERN VENTILATION STRUCTURE BASEMENT - MECHANICAL ROOM LOWER LEVEL
NEL-CNT-WMI-2990-UUD-DRG-0065	UDLP SOUTHERN VENTILATION STRUCTURE BASEMENT - MECHANICAL ROOM UPPER LEVEL
NEL-CNT-WMI-2990-UUD-DRG-0066	UDLP SOUTHERN VENTILATION STRUCTURE ELEVATION - NORTH
NEL-CNT-WMI-2990-UUD-DRG-0067	UDLP SOUTHERN VENTILATION STRUCTURE ELEVATION - SOUTH
NEL-CNT-WMI-2990-UUD-DRG-0068	UDLP SOUTHERN VENTILATION STRUCTURE ELEVATION - EAST
NEL-CNT-WMI-2990-UUD-DRG-0069	UDLP SOUTHERN VENTILATION STRUCTURE ELEVATION - WEST
NEL-CNT-WMI-2990-UUD-DRG-0070	UDLP SOUTHERN VENTILATION STRUCTURE SECTION 01
NEL-CNT-WMI-2990-UUD-DRG-0071	UDLP SOUTHERN VENTILATION STRUCTURE SECTION 02
NEL-CNT-WMI-2990-UUD-DRG-0072	UDLP SOUTHERN VENTILATION STRUCTURE SECTION 03
NEL-CNT-WMI-2990-UUD-DRG-0073	UDLP SOUTHERN INTERFACE - LAND BRIDGE EASTERN SUP SHEET 1
NEL-CNT-WMI-2990-UUD-DRG-0074	UDLP SOUTHERN INTERFACE - LAND BRIDGE EASTERN SUP SHEET 2
NEL-CNT-WMI-2990-UUD-DRG-0075	UDLP SOUTHERN VENTILATION STRUCTURE VISUALISATION 01
NEL-CNT-WMI-2990-UUD-DRG-0076	UDLP SOUTHERN VENTILATION STRUCTURE VISUALISATION 02

C:\Users\jg\Documents\NEL_UDLP\Att 1 - Southern Ventilation Structure\eg279191.rvt

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

© North East Link Program 06 FOR REVIEW 14.10.2022 05 FOR REVIEW 12.10.2022 04 FOR REVIEW 01.09.2022 03 FOR REVIEW 10.08.2022 02 FOR REVIEW 23.06.2022 01 PUBLIC EXHIBITION 02.05.2022		DRAFTING NAME DATE CHECKED BY E. GRIFFITH 14.10.2022 DESIGNED BY M. KEDDELL 14.10.2022 ENGINEERING CHECKED BY R. MARSH 14.10.2022 VERIFIED BY R. WOOD 14.10.2022 APPROVED R. NAYLOR 14.10.2022	Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.		<p>GPB 8208 4508 180 JOUBINE VICTORIA 3801 PHONE 180 100 000</p>	DOT DRAWING No.: Rev:
REV DESCRIPTION REVISIONS APPROVALS	DRAWN: J. HO SIZE: A1 SCALE:	Protective Marking: OFFICIAL: Sensitive PROJECT CONTRACT: CAD FILE: NEL-PC-SPK-2500-BAR-MD3-4001.rvt	NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0060	SUIT. CODE REVISION 06		

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

C:\Users\jg\Documents\NEL_UDLP\Att 1 - Southern Ventilation Structure Contextual Plan

REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DATE	NAME	DATE	CONDITIONS OF USE
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022			This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.
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04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022			
03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	14.10.2022			
02	FOR REVIEW	23.06.2022	CHECKED BY	R. NAYLOR	14.10.2022			
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY					
			APPROVED					
REVISIONS			APPROVALS					DRAWN: J. HO SIZE: A1 SCALE: 1:2000 CAD FILE: NEL-PC-SPK-2500-BAR-MD3-4001.rvt

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - URBAN DESIGN AND ARCHITECTURE
UDLP SOUTHERN VENTILATION STRUCTURE CONTEXTUAL PLAN

DOT DRAWING No.: _____ Rev: _____

PROJECT CONTRACT: _____

NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0061

SUIT. CODE: _____ REVISION: 06



EASTERN SUP LOCATION PLAN

1:300

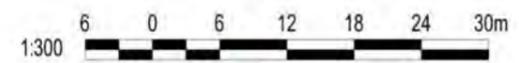
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EASTERN SUP ELEVATION

1:300

MATERIALS AND FINISHES	
M1 METAL PANEL WITH SELECTED COLOUR CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.	M5 STAINLESS STEEL METAL MESH WITH HIGH TRANSPARENCY (60-80%), <50MM MESH OPENINGS
M4 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED FEATURE LIGHTS CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE. ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT.	T1 TIMBER CLADDING TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER
C4 TEXTURED CONCRETE WITH SELECT OXIDE TEXTURE: 57MM DEEP CAST PATTERNS / OXIDE COLOUR TBC. NON-FILMFORMING ANTI-GRAFFITI COATINGS	C2 SMOOTH CONCRETE WITH OXIDE OXIDE COLOUR TBC
G2 PHOTOVOLTAIC PANELS INTEGRATED WITH METAL PANELS. PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT	<small>A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MANGSLI COLOUR CHART. SUBJECT TO DESIGN DEVELOPMENT ANALYSIS</small>



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVED
06	FOR REVIEW	14.10.2022	E. GRIFFITH
05	FOR REVIEW	12.10.2022	M. KEDDELL
04	FOR REVIEW	01.09.2022	R. MARSH
03	FOR REVIEW	10.08.2022	R. MARSH
02	FOR REVIEW	23.06.2022	R. WOOD
01	PUBLIC EXHIBITION	02.05.2022	R. NAYLOR

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M. KEDDELL	14.10.2022	
R. MARSH	14.10.2022	
R. WOOD	14.10.2022	
R. NAYLOR	14.10.2022	

NORTH EAST LINK TUNNELS UDLP
 ATTACHMENT 1 - URBAN DESIGN AND ARCHITECTURE
 UDLP SOUTHERN INTERFACE - LAND BRIDGE EASTERN SUP
 SHEET 1

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-PC-SPK-2500-BAR-MD3-4001.rvt

PROJECT CONTRACT: NEL-CNT-WMI-2990-UUD-DRG-0073

NEL DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0073

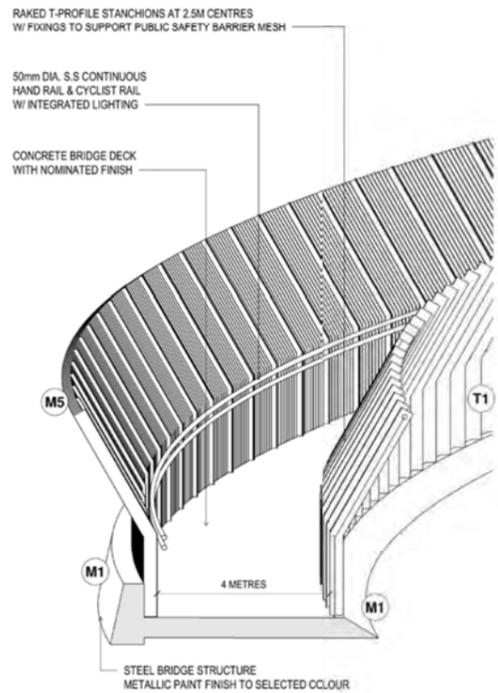
SUIT. CODE: 06

REVISION: 06

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A EASTERN SUP SECTION
0073 1:50

MATERIALS AND FINISHES

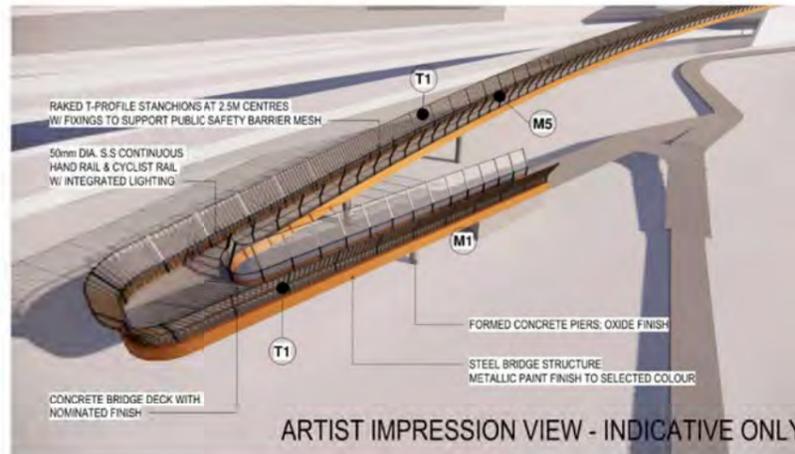
- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
 - M4** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D FEATURE LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT.
 - C4** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 17.5MM DEEP CAST PATTERN / OXIDE COLOUR TBC. NON-REFLECTIVE ANTI-GLARE FINISH COATING.
 - G2** PHOTOVOLTAIC PANELS
INTEGRATED WITH METAL PANELS. PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT.
 - M5** STAINLESS STEEL METAL MESH WITH HIGH TRANSPARENCY (60-80%), 50mm MESH OPENINGS
 - T1** TIMBER CLADDING
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER
 - C2** SMOOTH CONCRETE WITH OXIDE
OXIDE COLOUR TBC
- A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MUNDILL COLOUR CHART. SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.



ARTIST IMPRESSION VIEW - INDICATIVE ONLY

EASTERN SUP OVERALL

NTS
BRIDGE NAMING TO ALIGN WITH PROJECT STRATEGY AFTER FURTHER CONSULTATION.



ARTIST IMPRESSION VIEW - INDICATIVE ONLY

EASTERN SUP AERIAL

NTS



ARTIST IMPRESSION VIEW - INDICATIVE ONLY

EASTERN SUP CLOSE UP

NTS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	14.10.2022	
			APPROVED	R. NAYLOR	14.10.2022	

GPB 8218 4538
180 100 0000
VICTORIA, 3801
PHONE 180 100 0000

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - URBAN DESIGN AND ARCHITECTURE
UDLP SOUTHERN INTERFACE - LAND BRIDGE EASTERN SUP
SHEET 2

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-PC-SPK-2500-BAR-MD3-4001.rvt

PROJECT CONTRACT:

NEL DRAWING No:
NEL-CNT-WMI-2990-UUD-DRG-0074

SUIT. CODE
06

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NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 1 - ARCHITECTURE & URBAN DESIGN ROAD INFRASTRUCTURE

TABLE OF CONTENTS - UDLP FLOOD, NOISE AND RETAINING WALLS

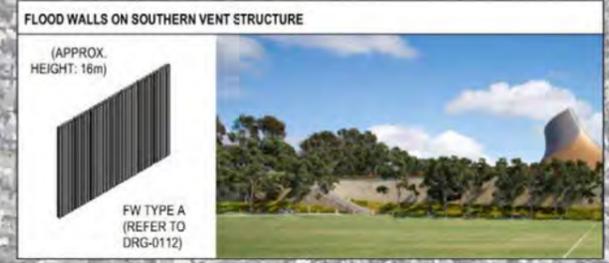
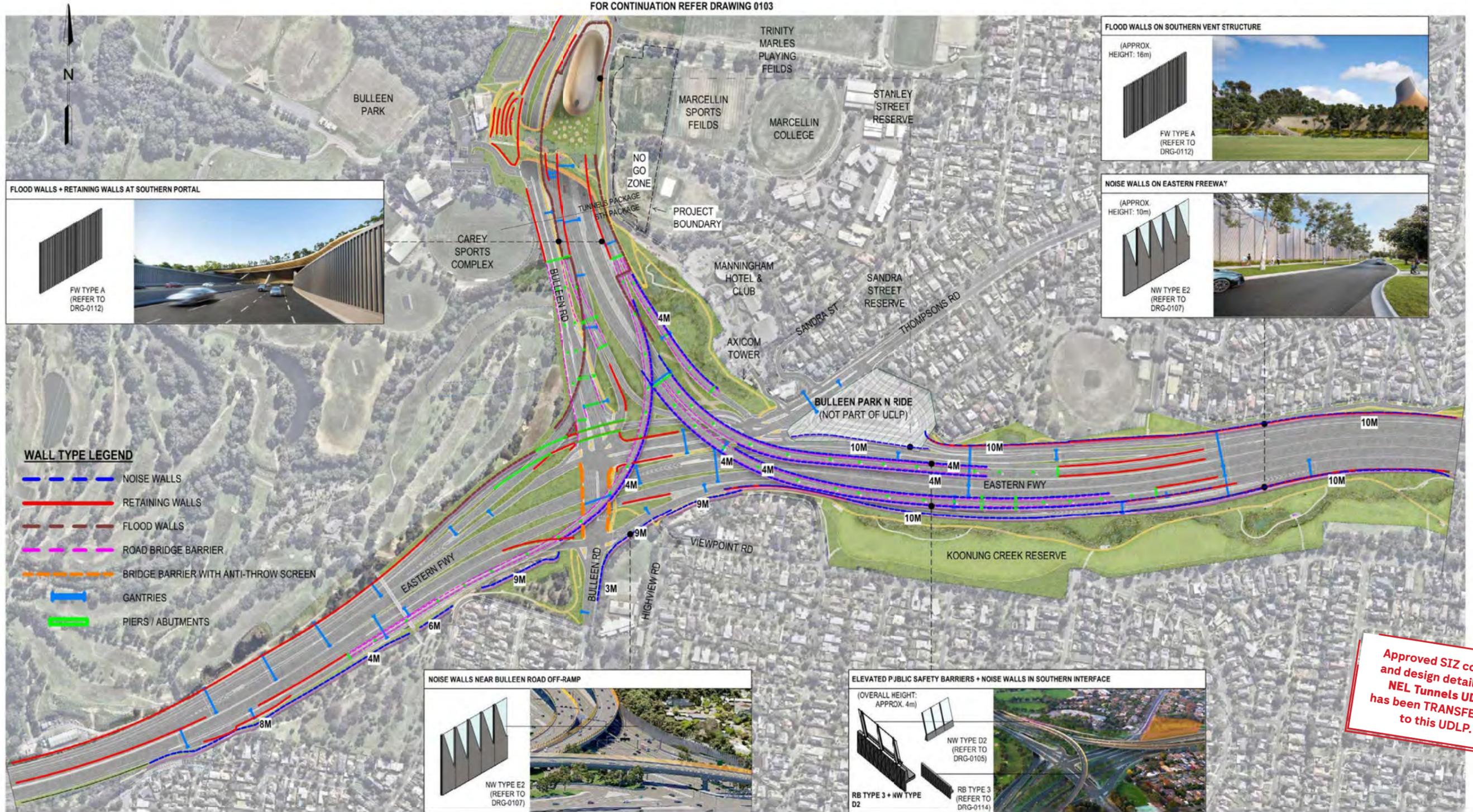
DRAWING NUMBER	TITLE
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NEL-CNT-WMI-2990-UUD-DRG-0101	ROAD INFRASTRUCTURE MARKING PLAN SHEET 01
NEL-CNT-WMI-2990-UUD-DRG-0102	ROAD INFRASTRUCTURE MARKING PLAN SHEET 02
NEL-CNT-WMI-2990-UUD-DRG-0103	ROAD INFRASTRUCTURE MARKING PLAN SHEET 03
NEL-CNT-WMI-2990-UUD-DRG-0104	ROAD INFRASTRUCTURE MARKING PLAN SHEET 04
NEL-CNT-WMI-2990-UUD-DRG-0105	ROAD INFRASTRUCTURE NOISE WALL TYPE D1, D2
NEL-CNT-WMI-2990-UUD-DRG-0106	ROAD INFRASTRUCTURE NOISE WALL TYPE D - INTEGRATION
NEL-CNT-WMI-2990-UUD-DRG-0107	ROAD INFRASTRUCTURE NOISE WALL TYPE E2
NEL-CNT-WMI-2990-UUD-DRG-0108	ROAD INFRASTRUCTURE NOISE WALL TYPE E3 & F 1
NEL-CNT-WMI-2990-UUD-DRG-0109	ROAD INFRASTRUCTURE NOISE WALL TYPE E3 & F 1
NEL-CNT-WMI-2990-UUD-DRG-0110	ROAD INFRASTRUCTURE RETAINING WALL TYPE A, B
NEL-CNT-WMI-2990-UUD-DRG-0111	ROAD INFRASTRUCTURE RETAINING WALL TYPE C, D
NEL-CNT-WMI-2990-UUD-DRG-0112	ROAD INFRASTRUCTURE FLOOD WALL TYPE A
NEL-CNT-WMI-2990-UUD-DRG-0113	ROAD INFRASTRUCTURE PSB TYPE C (PV)
NEL-CNT-WMI-2990-UUD-DRG-0114	ROAD INFRASTRUCTURE MULTI SPAN BRIDGE BARRIERS
NEL-CNT-WMI-2990-UUD-DRG-0115	ROAD INFRASTRUCTURE TUNNEL LIGHTING
NEL-CNT-WMI-2990-UUD-DRG-0116	ROAD INFRASTRUCTURE GANTRIES DETAILS
NEL-CNT-WMI-2990-UUD-DRG-0117	ROAD INFRASTRUCTURE PIER TYPE A, B, C, D & E



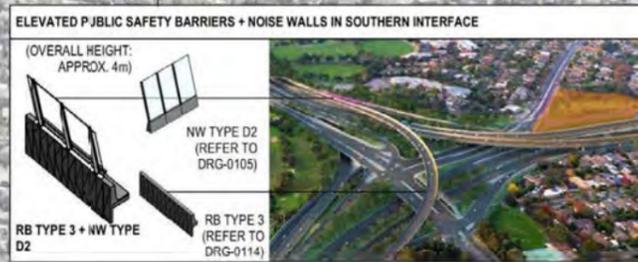
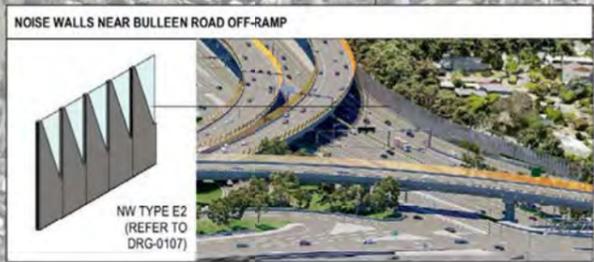
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<p>REVISIONS</p>		<p>APPROVALS</p>	<p>DRAWN: C. EASTWOOD</p> <p>SIZE: A3</p> <p>SCALE:</p>	<p>CAD FILE: NEL-PW-SPK-9990-UUD-MD3-0001.rvt</p>	<p>PROJECT CONTRACT:</p>	<p>NEL P DRAWING No.:</p> <p>NEL-CNT-WMI-2990-UUD-DRG-0100</p>	<p>SUIT. CODE</p>	<p>REVISION</p> <p>06</p>																																						

FOR CONTINUATION REFER DRAWING 0103



- WALL TYPE LEGEND**
- NOISE WALLS
 - RETAINING WALLS
 - FLOOD WALLS
 - ROAD BRIDGE BARRIER
 - BRIDGE BARRIER WITH ANTI-THROW SCREEN
 - = GANTRIES
 - = PIERS / ABUTMENTS



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WALL MARKING PLAN SHEET 4

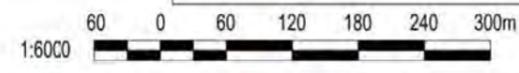
1 : 6000

NOTE: GANTRY LOCATIONS SUBJECT TO FINAL ENGINEERING ADVICE AND DETAILED DESIGN 1:5000

NOTE: ROAD BRIDGE BARRIER LOCATIONS SUBJECT TO FINAL ENGINEERING ADVICE AND DETAILED DESIGN 1:5000

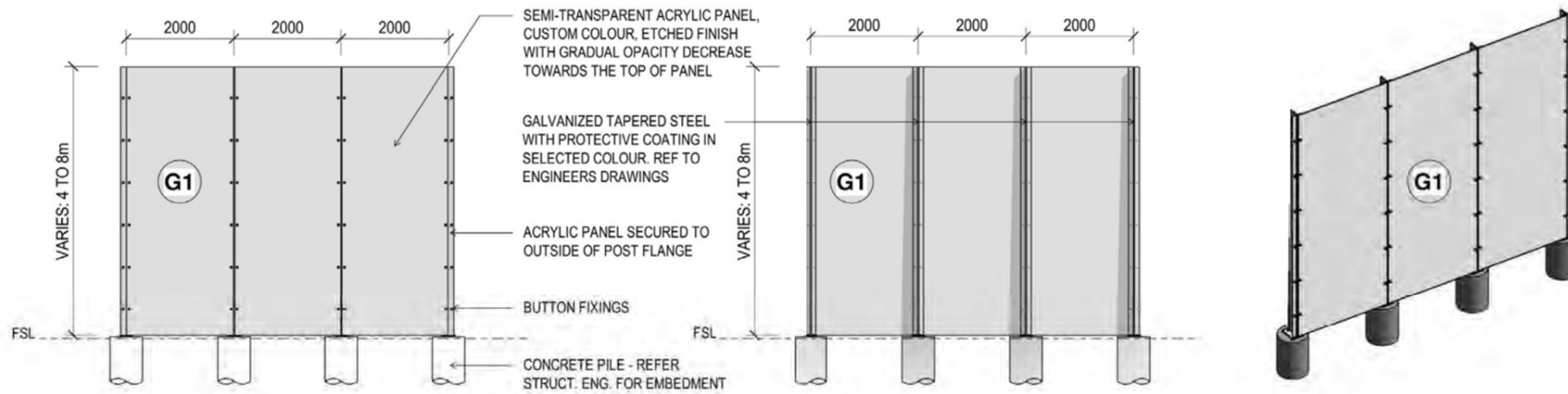
NOTE: NOISE WALL LOCATIONS SUBJECT TO FINAL ENGINEERING ADVICE, DETAILED DESIGN, AND CONSULTATION WITH DIRECTLY AFFECTED PROPERTY OWNERS AND OCCUPERS TO INFORM FORMULATION OF PARAMETERS FOR THESE STRUCTURES INCLUDING LOCATION, DESIGN AND MATERIALS.

NOTE: REFER TO SOUTHERN INTERFACE PACKAGE FOR TYPICAL WALL HEIGHTS.



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<p>06 FOR REVIEW 14.10.2022 DRAFTING CHECKED BY E. GRIFFITH 14.10.2022</p> <p>05 FOR REVIEW 12.10.2022</p> <p>04 FOR REVIEW 01.09.2022 DESIGNED BY M. KEDDELL 14.10.2022</p> <p>03 FOR REVIEW 10.08.2022 ENGINEERING CHECKED BY R. MARSH 14.10.2022</p> <p>02 FOR REVIEW 23.06.2022</p> <p>01 PUBLIC EXHIBITION 02.05.2022 VERIFIED BY R. WOOD 14.10.2022</p>				<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 		<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-PW-SPK-9990-UUD-MD3-0001.rvt</p>		<p>NORTH EAST LINK TUNNELS UDLP</p> <p>ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN</p> <p>ROAD INFRASTRUCTURE MARKING PLAN SHEET 04</p>	
<p>REV DESCRIPTION REVISIONS DATE APPROVED BY</p>		<p>APPROVALS</p>		<p>PROJECT CONTRACT: NEL-P DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0104 SUIT. CODE: 06 REVISION: 06</p>					



NW TYPE D1 MOTORWAY VIEW

1:100

NW TYPE D1 RESIDENT VIEW

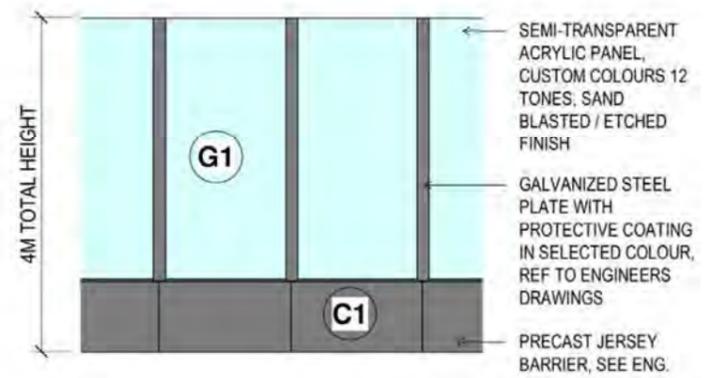
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NW_TYPE D1_3D

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CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
 - M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT.
 - M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE.
 - M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE.
 - T1** TIMBER ELEMENT
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER.
 - G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION.
 - G2** PHOTOVOLTAIC PANELS
PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT.
 - C1** SMOOTH CONCRETE FINISH
 - C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
 - C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN. / OXIDE COLOUR TBC. NON FILM-FORMING ANTI-GRAFFITI COATING.
- A REFLECTIVITY STUDY* WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MUNSELL COLOUR CHART, SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.

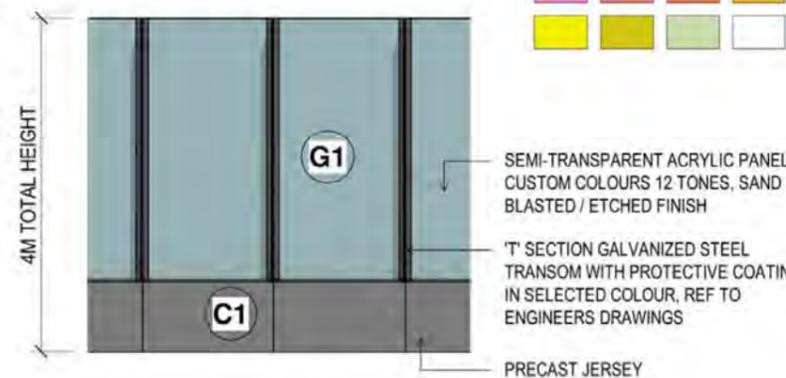


NOTE: ALLOW FOR COLOURATION GRADIENT IN ACRYLIC



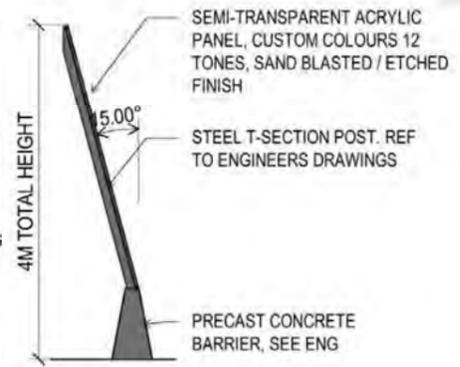
NW TYPE D2 MOTORWAY VIEW

1:100



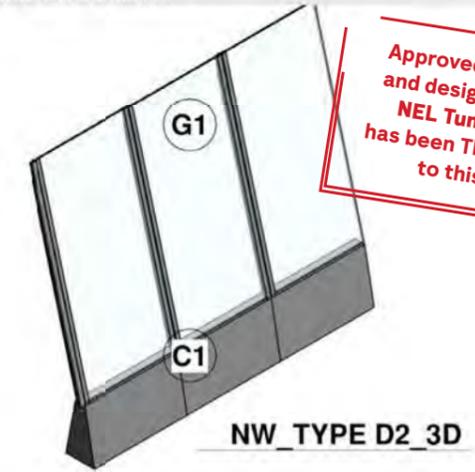
NW TYPE D2 RESIDENT VIEW

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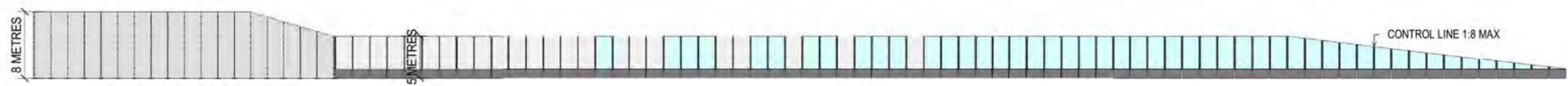
NW TYPE D2 SECTION

1:100



NW_TYPE D2_3D

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NW TYPE D TRANSITION

1:500

NOTE: ALLOW FOR CUSTOM PANELS AT HEIGHT AND TYPE TRANSITIONS.

NOTE: ALLOW FOR CUSTOM PANELS AT ADDITIONAL TERMINATION OF 20-32M LENGTH. REFER TO NOISE WALL ALIGNMENT FOR LOCATIONS AND EXTENT.

LOCATION NOTE:
TYPICALLY TO EASTERN FREEWAY RAMP EDGES. REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

NOTE: SUBFRAMING REQ TO SUPPORT SECOND ACRYLIC PANEL WHEN PANEL HEIGHT IS GREATER THAN 5M

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN



<p>06 FOR REVIEW 14.10.2022 DRAFTING CHECKED BY E. GRIFFITH 14.10.2022</p> <p>05 FOR REVIEW 12.10.2022 DESIGNED BY M. KEDDELL 14.10.2022</p> <p>04 FOR REVIEW 01.09.2022 ENGINEERING CHECKED BY R. MARSH 14.10.2022</p> <p>03 FOR REVIEW 10.08.2022 VERIFIED BY R. WOOD 14.10.2022</p> <p>02 FOR REVIEW 23.06.2022</p> <p>01 PUBLIC EXHIBITION 02.05.2022</p>				<p>Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.</p>		<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>PROTECTIVE MARKING: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-PW-SPK-9990-UUD-MD3-0001.rvt</p>		<p>NORTH EAST LINK TUNNELS UDLP</p> <p>ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN</p> <p>ROAD INFRASTRUCTURE NOISE WALL TYPE D1, D2</p>	
<p>REV DESCRIPTION REVISIONS</p>		<p>DATE APPROVED BY R. NAYLOR 14.10.2022</p>		<p>APPROVALS</p>		<p>DRAWN: C. EASTWOOD SIZE: A3 SCALE: As indicated</p>		<p>PROJECT CONTRACT: NEL-P DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0105 SUIT. CODE: REVISION: 06</p>	

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BULLEEN AERIAL

NTS



NOISE WALLS AT BULLEEN INTERCHANGE

NTS

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN

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REVISIONS			APPROVALS		DRAWN: C. EASTWOOD	SIZE: A3	SCALE: 1:1

Protective Marking: **OFFICIAL: Sensitive**

PROJECT CONTRACT:

NEL P DRAWING No.:

SUIT. CODE

REVISION

NORTH EAST LINK TUNNELS UDLP
 ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
 ROAD INFRASTRUCTURE NOISE WALL TYPE D - INTEGRATION

NEL P DRAWING No.:

NEL-CNT-WMI-2990-UUD-DRG-0106

SUIT. CODE

REVISION

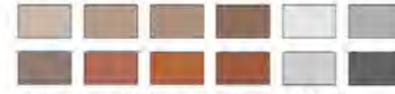
06

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12 TONES (FOR ALL ACRYLICS)
(TO BE FURTHER REFINED)



CONCRETE OXIDE SHADES
(TO BE FURTHER REFINED)



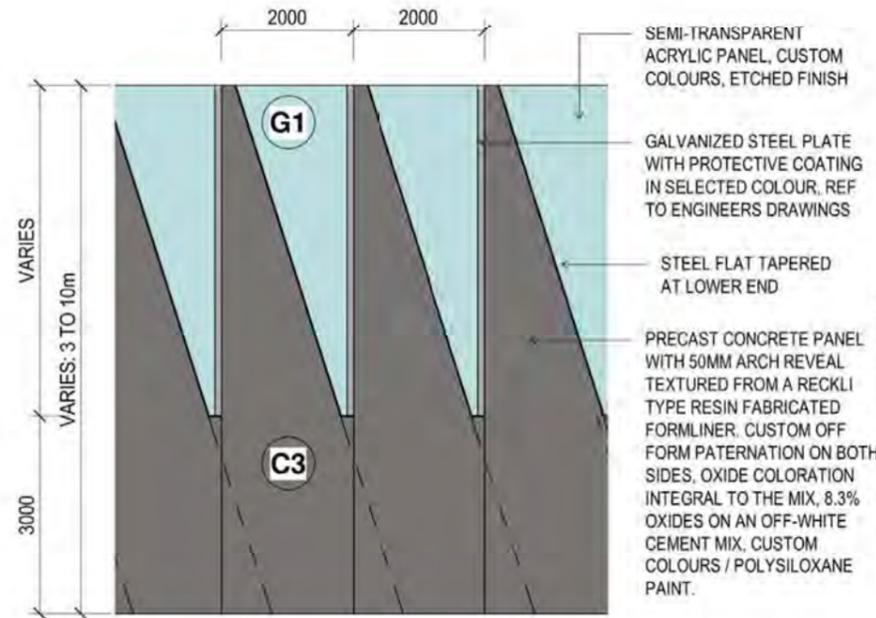
COLOURS DERIVED FROM THE MUNSELL COLOUR CHART

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
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TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER.

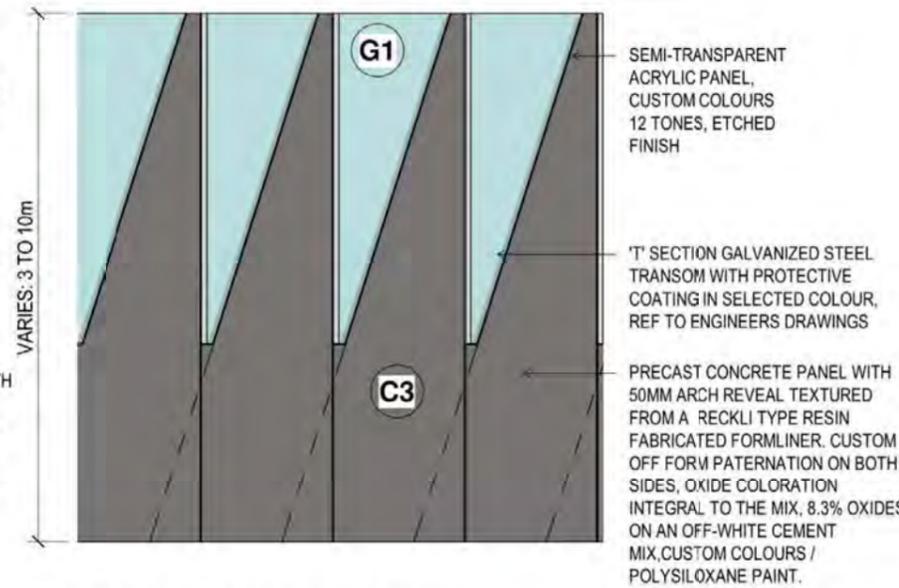
- G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION
- G2** PHOTOVOLTAIC PANELS
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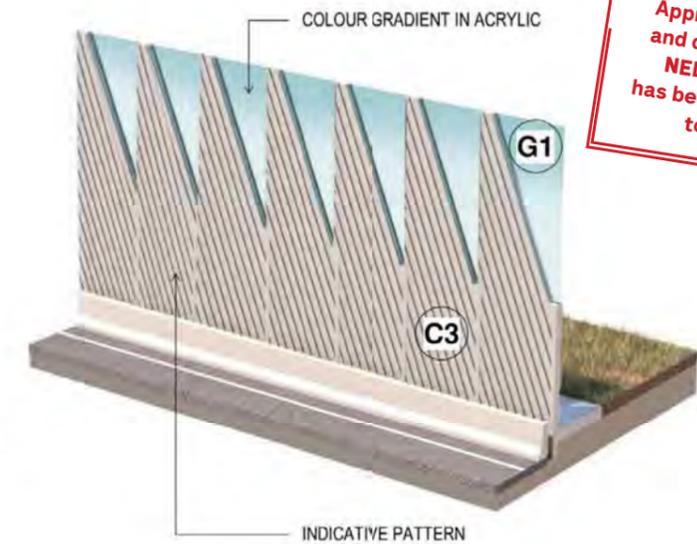
NW TYPE E2 MOTORWAY VIEW

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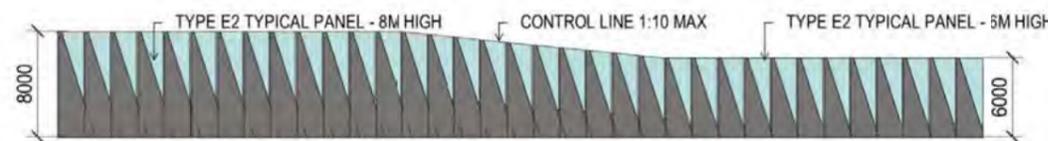


NW TYPE E2 RESIDENT VIEW

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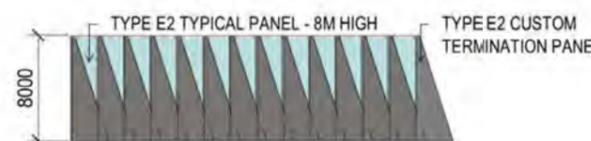


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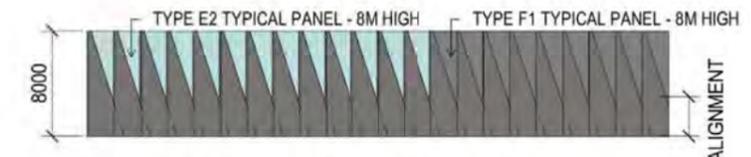
NW TYPE E HEIGHT TRANSITION

1:500



NW TYPE E TERMINATION

1:500



NW TYPE E TYPE TRANSITION

1:500

NOTE: ALLOW FOR CUSTOM PANELS OVER 20M IN CONDITIONS WHERE:
- THERE IS A CHANGE OF HEIGHT OVER A CONSISTENT TYPE E WALL TYPE

LOCATION NOTE:
TYPICALLY TO SOUTHERN EDGE OF EASTERN FREEWAY INC. BELLE VUE PRIMARY. REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

NOTE: ALLOW FOR ADDITIONNAL CUSTOM TERMINAISON PANEL

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN

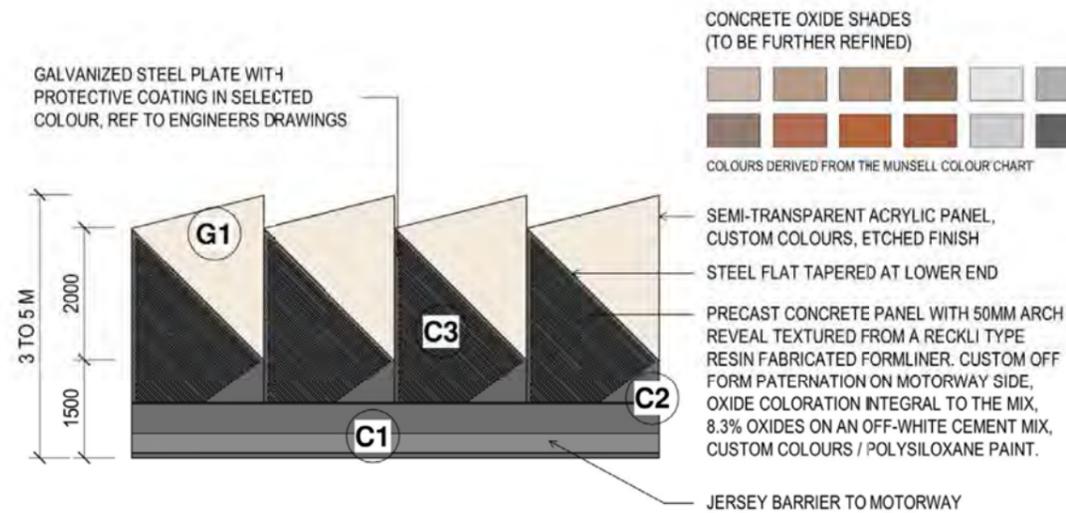


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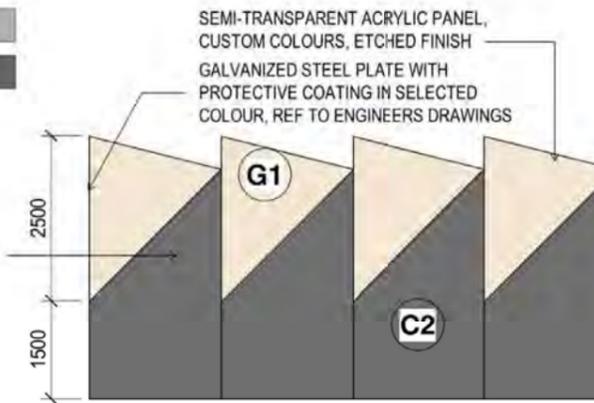
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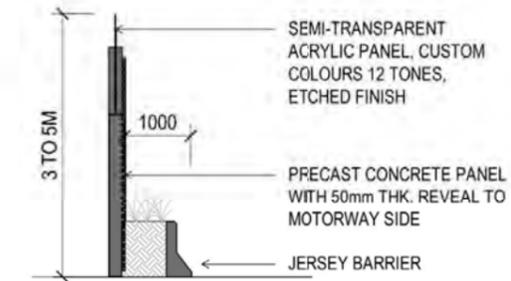
NW TYPE E3 GREENSBOROUGH BOULEVARD VIEW

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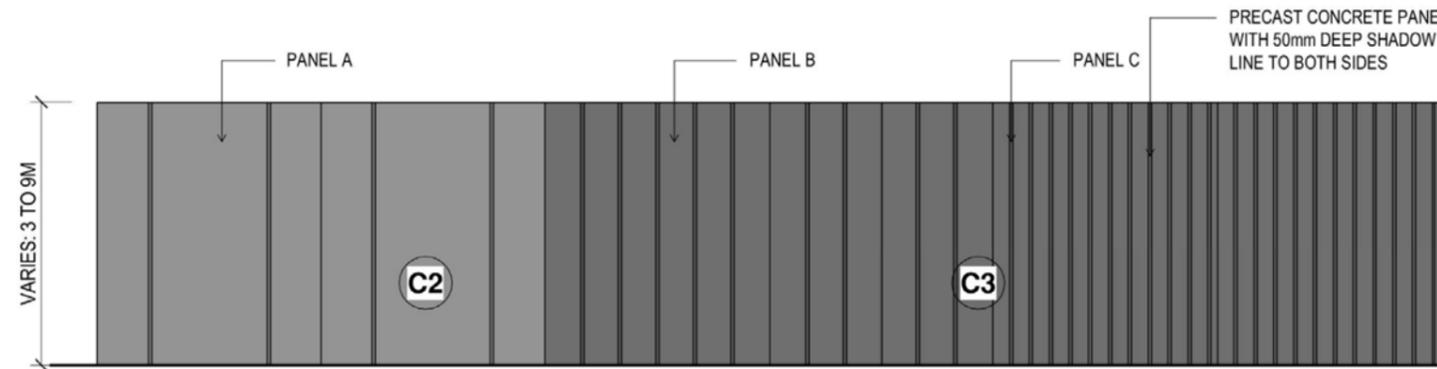
NW TYPE E3 RESIDENT VIEW

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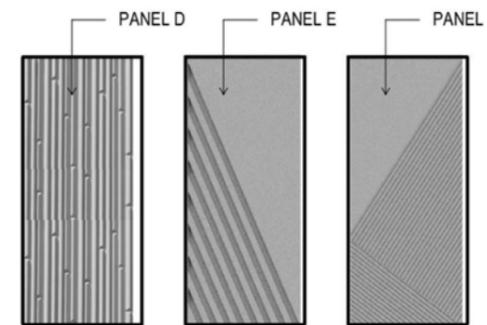
NW TYPE E3 SECTION

1 : 100



NW TYPE F1 MOTORWAY & RESIDENT VIEW

1 : 100



NW TYPE F1 PATTERN ELEVATION

1 : 5

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT.
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- T1** TIMBER ELEMENT
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER
- G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION
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- C3** TEXTURED CONCRETE WITH SELECT OXIDE
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LOCATION NOTE:
TYPICALLY TO EASTERN FREEWAY EDGE & SURROUNDS.
REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN

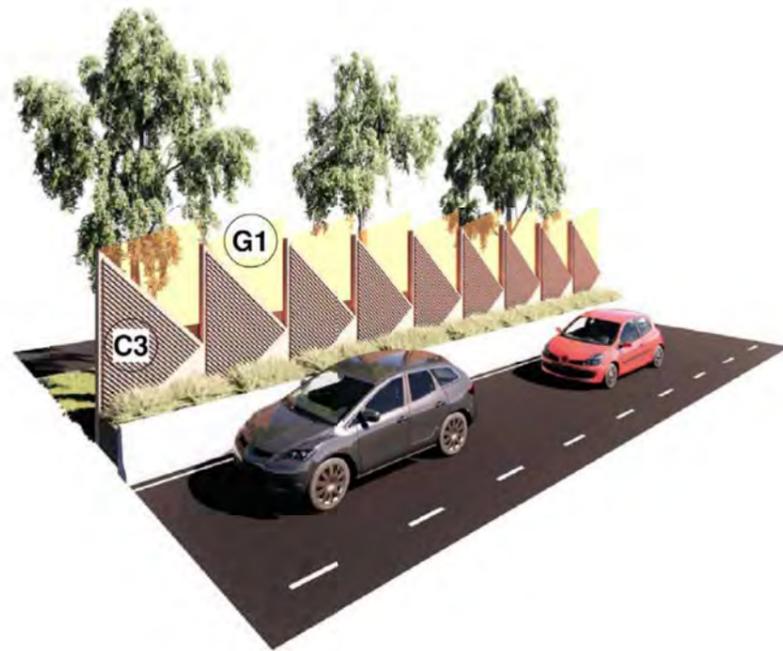


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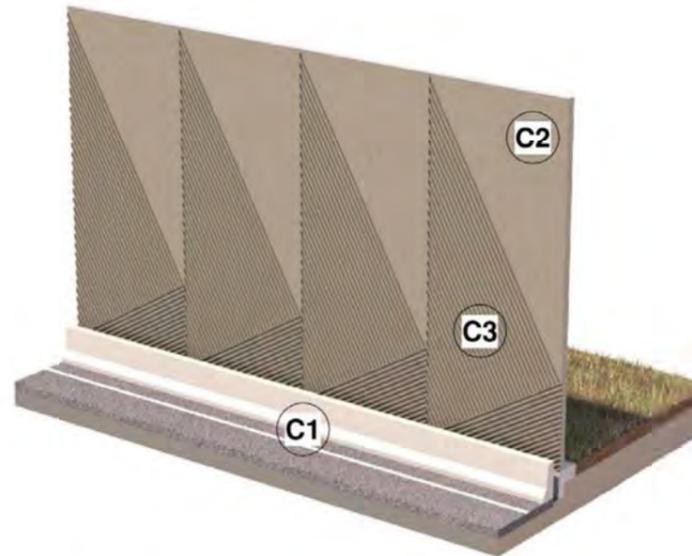
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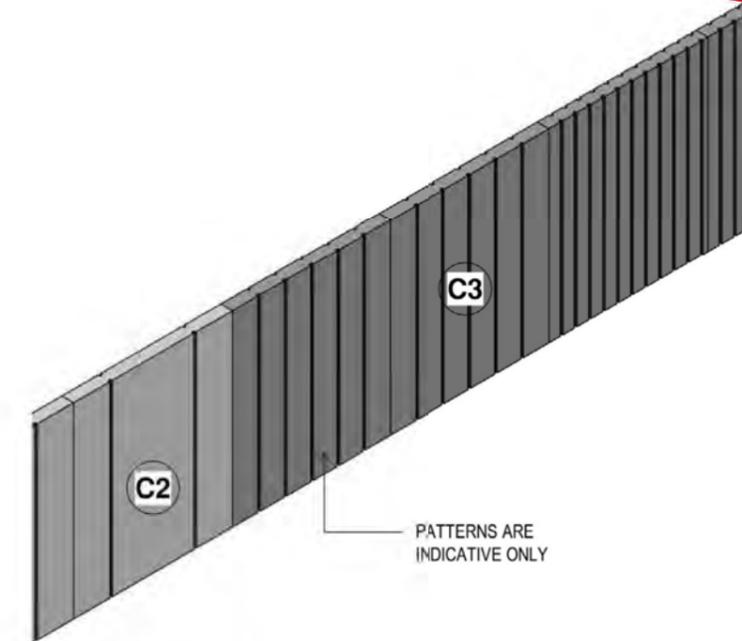
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TYPE E3



TYPE F1 PATTERN



NW_TYPE F1 ISO

PATTERNS ARE INDICATIVE ONLY

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT
- M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE
- M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE
- T1** TIMBER ELEMENT
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER

- G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION
- G2** PHOTOVOLTAIC PANELS
PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
- C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN / OXIDE COLOUR TBC NON FILM-FORMING ANTI-GRAFFITI COATING

A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MUNSELL COLOUR CHART. SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.

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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY: E. GRIFFITH
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02	FOR REVIEW	23.06.2022	APPROVED BY: R. NAYLOR
01	PUBLIC EXHIBITION	02.05.2022	

REVISIONS

APPROVALS

DRAWN: C. EASTWOOD

SIZE: A3

SCALE: 1:1

CAD FILE: NEL-PW-SPK-9990-UUD-MD3-0001.rvt

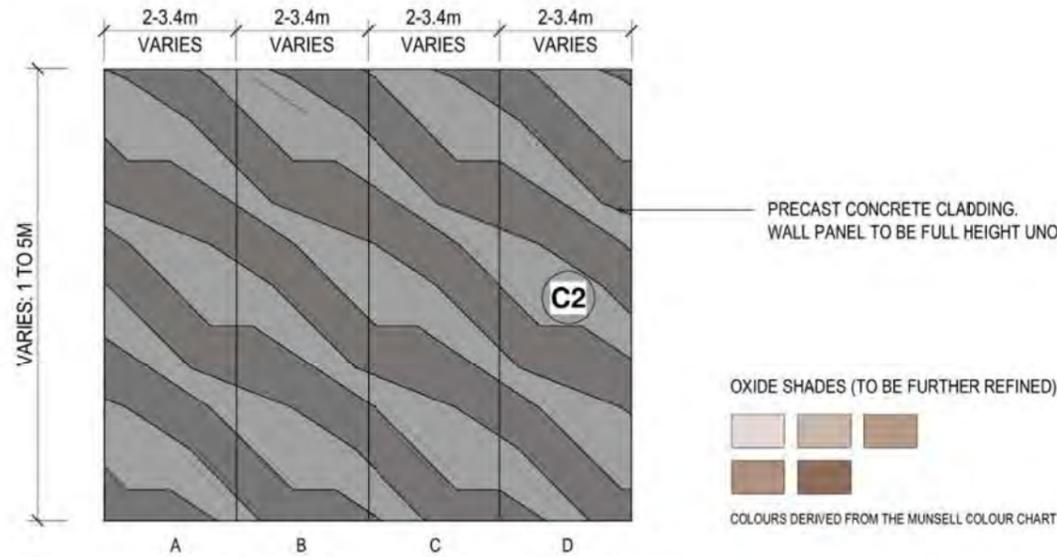


PROJECT CONTRACT:

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
ROAD INFRASTRUCTURE NOISE WALL TYPE E3 & F 1

NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0109

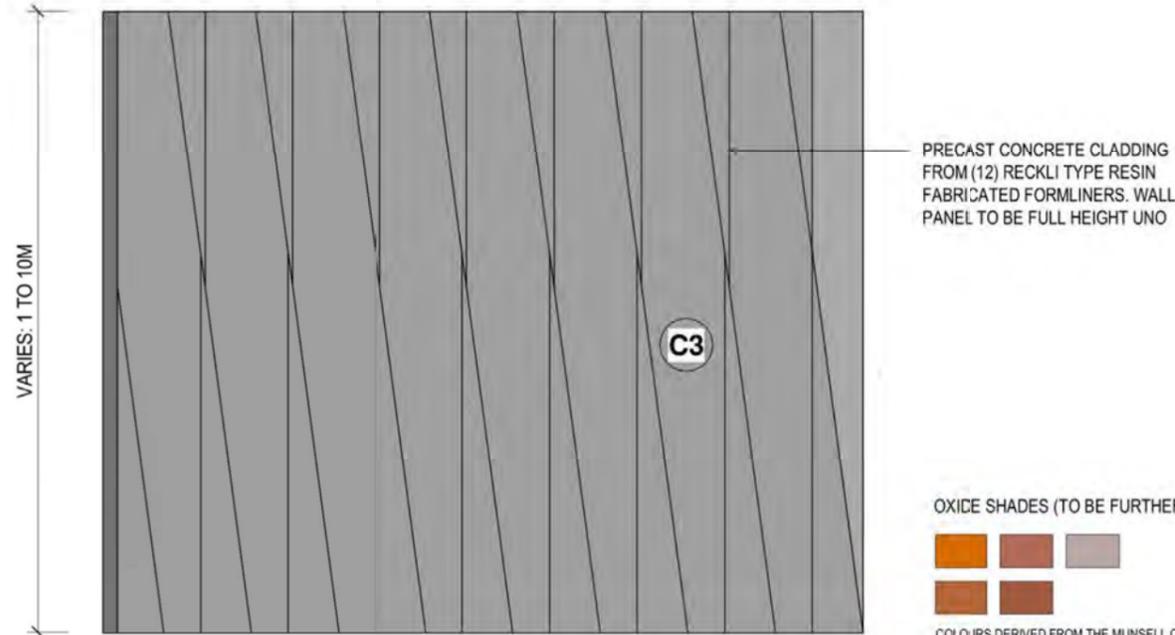
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REVISION: 06



RW TYPE A ELEVATION

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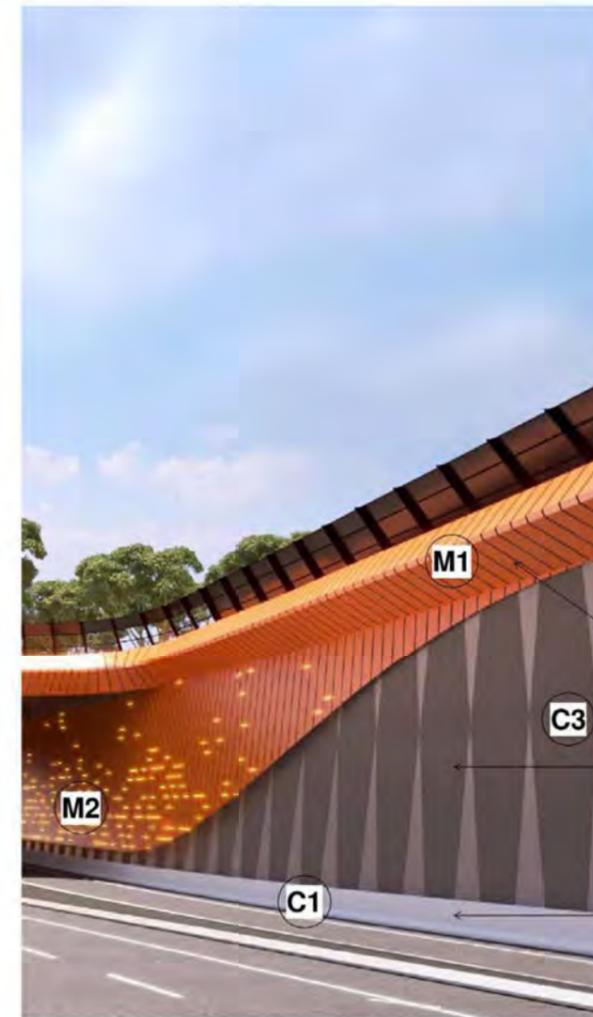
2000 TYP, 2000 TYP



RW TYPE B ELEVATION

1 : 200

LOCATION NOTE:
TYPICALLY TO TRENCH AND TUNNEL PORTALS.
REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.



RETAINING WALL TYPE B VISUALISATION

NTS

- MATERIALS AND FINISHES**
- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
 - M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT
 - M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC, FINISH TO BE NON-REFLECTIVE / NON-GLARE
 - M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC, FINISH TO BE NON-REFLECTIVE / NON-GLARE
 - T1** TIMBER ELEMENT
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER
 - G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION
 - G2** PHOTOVOLTAIC PANELS
PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT
 - C1** SMOOTH CONCRETE FINISH
 - C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
 - C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN / OXIDE COLOUR TBC. NON FILM-FORMING ANTI-GRAFFITI COATING
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Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

NOTE: ALL TOP OF RETAINING WALLS TO BE TAPERED TO ALLOW FOR CONTINUOUS HEIGHT TRANSITIONS.

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN. UD FINISH TO FULL HEIGHT OF PANEL UNLESS NOTED OTHERWISE.



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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY	E. GRIFFITH	14.10.2022	<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 	
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02	FOR REVIEW	23.06.2022	APPROVED BY	R. NAYLOR	14.10.2022		
01	PUBLIC EXHIBITION	02.05.2022					
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: C. EASTWOOD	SIZE: A3	SCALE: As indicated
REVISIONS				DRAWN: C. EASTWOOD		SIZE: A3	SCALE: As indicated

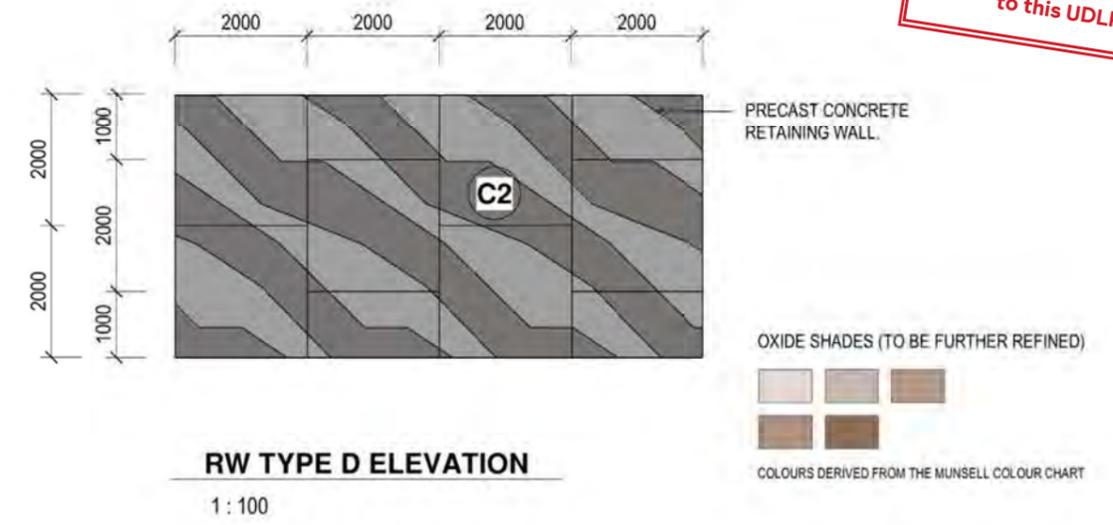
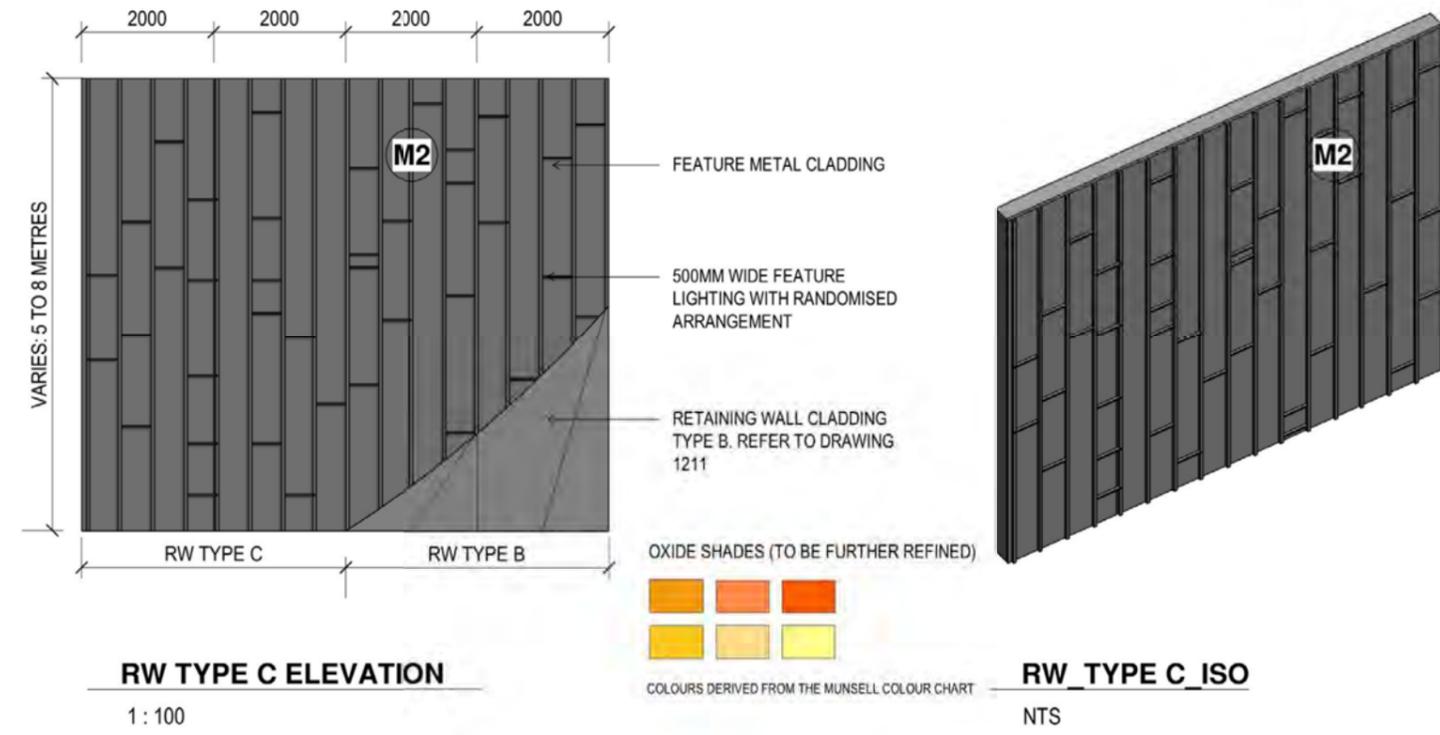
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- C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
- C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 6" 5MM DEEP CAST PATTERN. / OXIDE COLOUR TBC. NON FILM-FORMING ANTI-GRAFFITI COATING

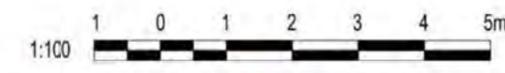
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Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.



LOCATION NOTE:
TYPICALLY TO MANNINGHAM AND LOWER PLENTY ROAD PORTALS. REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN



<p>© North East Link Program</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED BY</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>DRAFTING CHECKED BY: E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>DESIGNED BY: M. KEDDELL</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>ENGINEERING CHECKED BY: R. MARSH</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>VERIFIED BY: R. WOOD</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td></td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> </tr> </tbody> </table>				REV	DESCRIPTION	DATE	APPROVED BY	06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY: E. GRIFFITH	05	FOR REVIEW	12.10.2022	DESIGNED BY: M. KEDDELL	04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY: R. MARSH	03	FOR REVIEW	10.08.2022	VERIFIED BY: R. WOOD	02	FOR REVIEW	23.06.2022		01	PUBLIC EXHIBITION	02.05.2022		<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 		<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>NORTH EAST LINK PROGRAM</p> <p>150 RIVER 4005, MELBOURNE, VICTORIA 3001. PHONE 1800 130 133</p>		<p>DOT DRAWING No. _____ Rev. _____</p> <p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN ROAD INFRASTRUCTURE RETAINING WALL TYPE C, D</p>	
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ARTISTS IMPRESSION VIEW - INDICATIVE ONLY
TREES SHOWN AT MATURITY.

GREENSBOROUGH ROAD FLOOD WALL

NTS



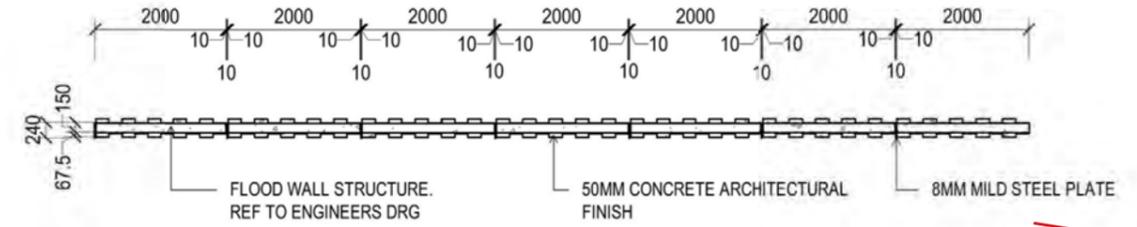
ARTISTS IMPRESSION VIEW - INDICATIVE ONLY
TREES SHOWN AT MATURITY.

BULLEEN ROAD FLOOD WALL

NTS

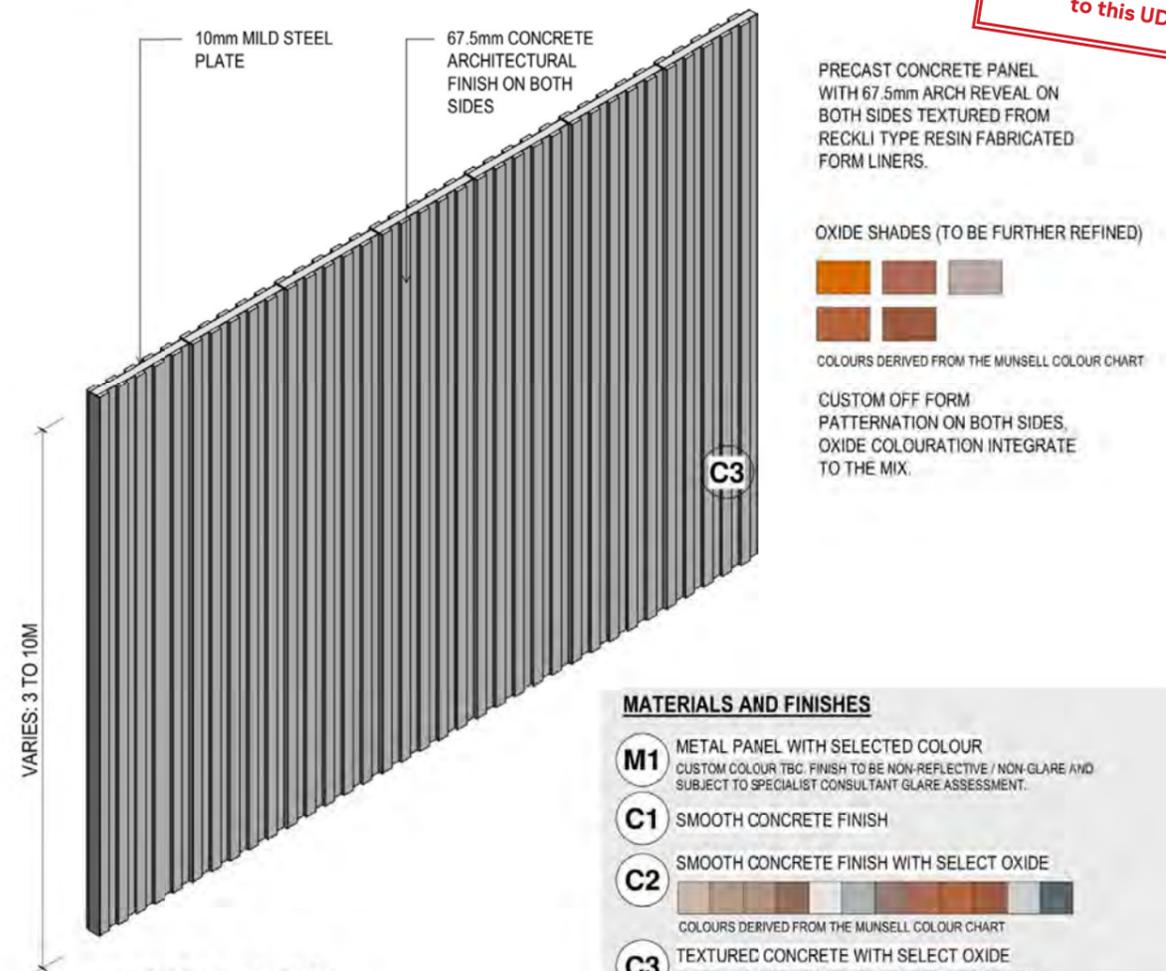
NOTE: FLOOD WALL TYPE A TO BE APPLIED ONTO ALL FLOOD WALLS WITHIN PROJECT BOUNDARY, INCLUDING THOSE FACING THE NEIGHBOURHOOD, UNLESS OTHERWISE NOTED. ALLOW RECKLI TYPE RESIN FORMLINER TO CUSTOM PATTERN 5 N°.

NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN



FW TYPE A PLAN

1 : 100



FW TYPE A ISO

NTS

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

PRECAST CONCRETE PANEL WITH 67.5mm ARCH REVEAL ON BOTH SIDES TEXTURED FROM RECKLI TYPE RESIN FABRICATED FORM LINERS.

OXIDE SHADES (TO BE FURTHER REFINED)



COLOURS DERIVED FROM THE MUNSELL COLOUR CHART

CUSTOM OFF FORM PATTERNATION ON BOTH SIDES. OXIDE COLOURATION INTEGRATE TO THE MIX.

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
COLOURS DERIVED FROM THE MUNSELL COLOUR CHART
- C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN. / OXIDE COLOUR TBC
NON FILM-FORMING ANTI-GRAFFITI COATING

A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY

LOCATION NOTE:
TYPICAL THROUGHOUT WATSONIA THROUGH TO SOUTH PORTALS. REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

DISCLAIMER NOTE:
GREENSBOROUGH ROAD FLOOD WALL IS AN ARTIST IMPRESSION VIEW AND IS INDICATIVE ONLY

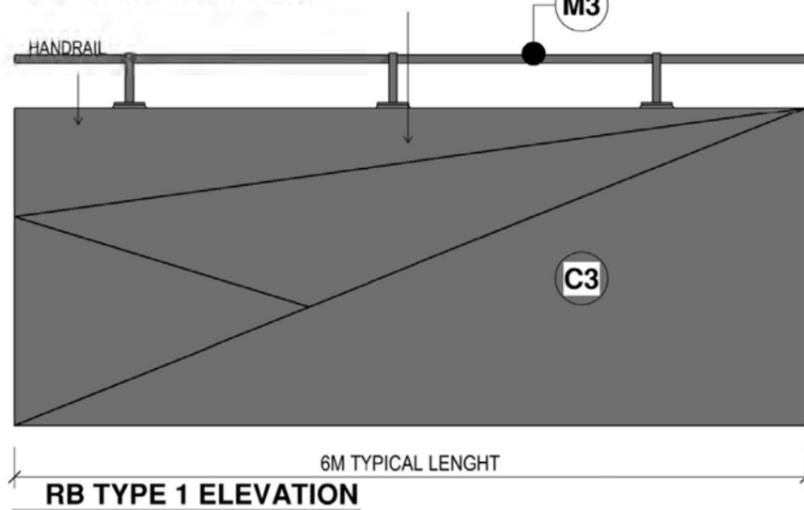
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BARRIERS 6M LENGTH TYPICALLY. ALLOW FOR 3M LENGTH WHERE RAMP HAVE TIGHTER RATIO.

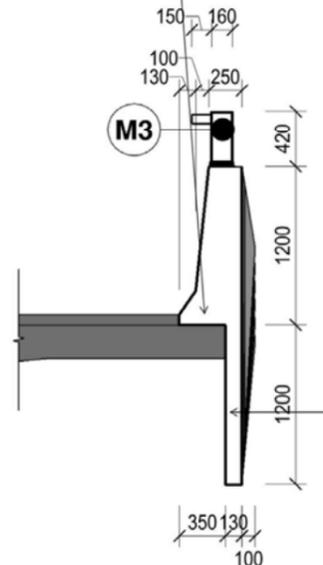
ALLOW FOR RECKLI TYPE FORMLINER FOR STANDARDIZED ARCHITECTURAL BARRIER TREATMENTS ACROSS THE PROJECT



1 : 50

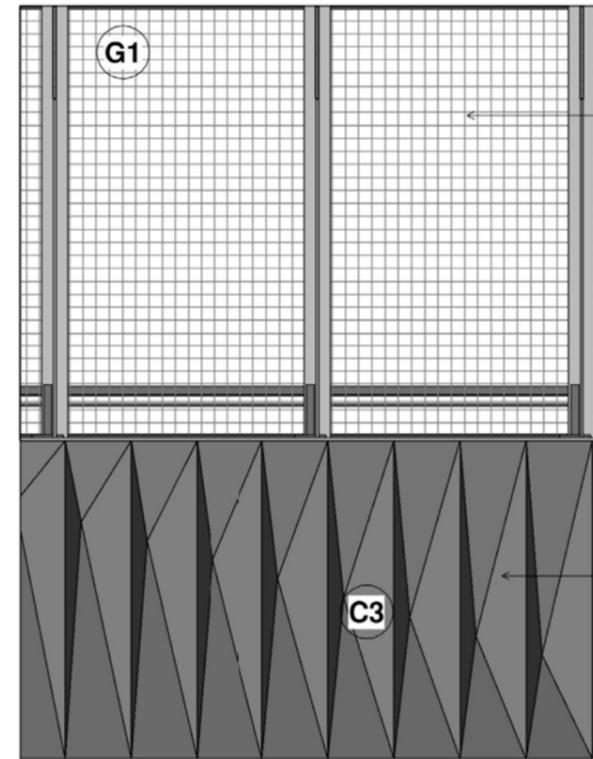
ALLOW FOR 100MM EXTRA THICKNESS FOR FORMING ARCHITECTURAL FEATURE PATTERN

STANDARD ROAD BARRIER DESIGNED BY STRUCTURAL ENGINEER



RB TYPE 1 SECTION

1 : 50

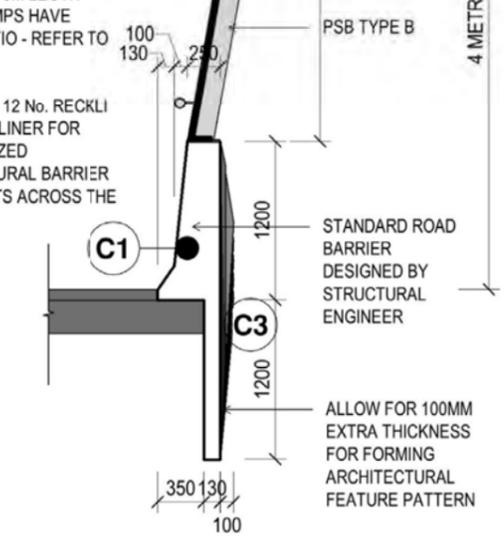


RB TYPE 3 ELEVATION

PSB TYPE B

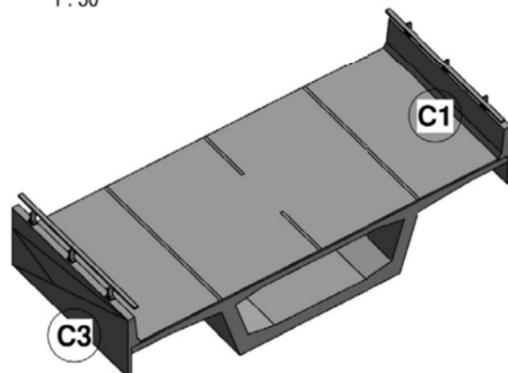
BARRIERS 6M LENGTH TYPICALLY. ALLOW FOR 3M LENGTH WHERE RAMP HAVE TIGHTER RATIO - REFER TO PLANS

ALLOW FOR 12 No. RECKLI TYPE FORMLINER FOR STANDARDIZED ARCHITECTURAL BARRIER TREATMENTS ACROSS THE PROJECT



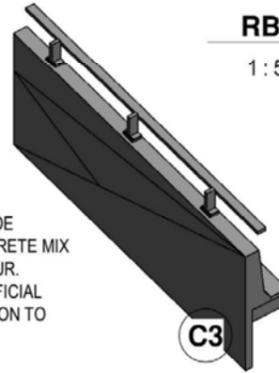
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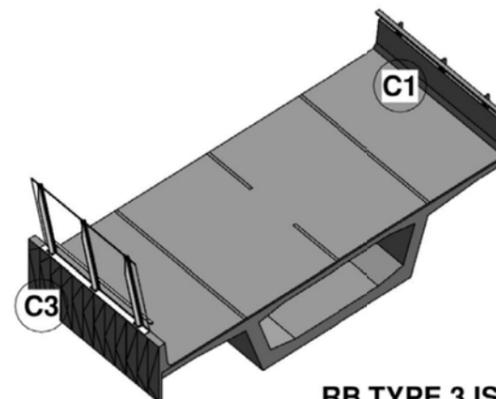


RB TYPE 1 ISO 1/2

ALLOW FOR 8% OXIDE INTEGRAL TO CONCRETE MIX IN SELECTED COLOUR. MATT CLEAR SACRIFICIAL GRAFFITI PROTECTION TO FULL EXTENT

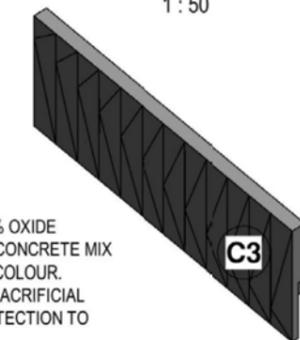


RB TYPE 1 ISO 2/2



RB TYPE 3 ISO 1/2

ALLOW FOR 8% OXIDE INTEGRAL TO CONCRETE MIX IN SELECTED COLOUR. MATT CLEAR SACRIFICIAL GRAFFITI PROTECTION TO FULL EXTENT



RB TYPE 3 ISO 2/2

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

MATERIALS AND FINISHES

M3 METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE

G1 ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION

G2 PHOTOVOLTAIC PANELS
PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT

C1 SMOOTH CONCRETE FINISH

C2 SMOOTH CONCRETE FINISH WITH SELECT OXIDE
COLOURS DERIVED FROM THE MUNSELL COLOUR CHART

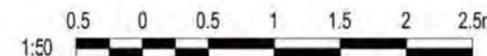
C3 TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN. / OXIDE COLOUR TBC. NON FILM-FORMING ANTI-GRAFFITI COATING

A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MUNSELL COLOUR CHART, SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.

LOCATION NOTE:
TYPICAL TO EASTERN FREEWAY OVERPASSES. REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.

NOTE: THIS PROPOSED ROAD BARRIER TYPE TO BE APPLIED TO ALL ROAD BARRIERS WITHIN THE PROJECT BOUNDARY.

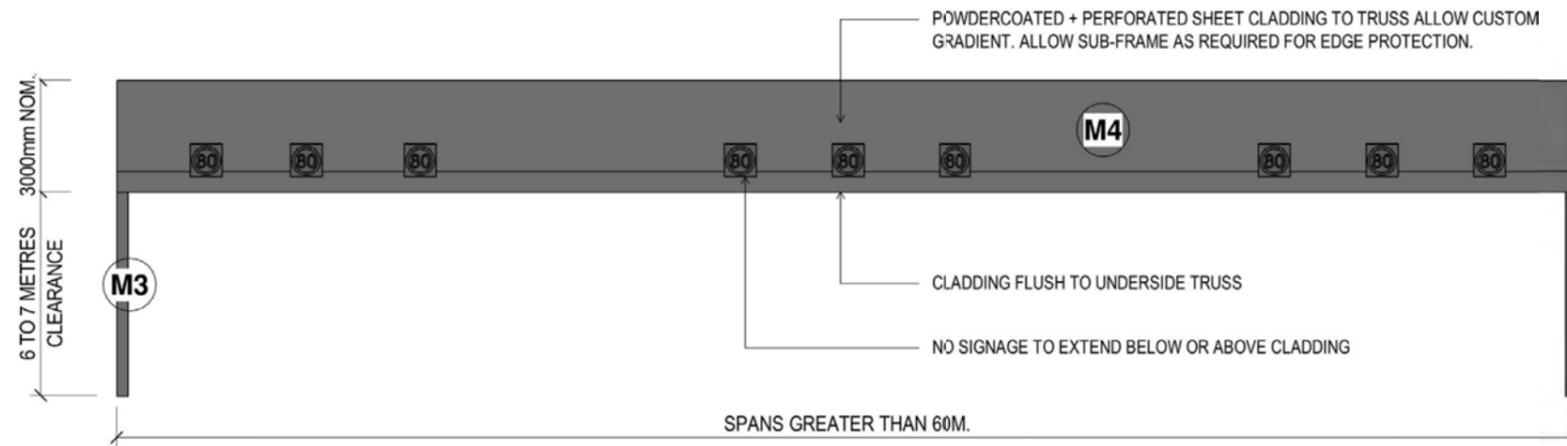
NOTE: HEIGHTS AND DIMENSIONS NOMINAL AND MAY VARY PER LOCATION - TO BE CONFIRMED IN DETAILED DESIGN



C:\Users\j\Documents\NEL-UDLP-Att 1-Road Infrastructure_09292022.rvt

<table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED BY</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>E. GRIFFITH</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>M. KEDDELL</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>R. MARSH</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>R. WOOD</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td>R. WOOD</td> </tr> </table>		REV	DESCRIPTION	DATE	APPROVED BY	06	FOR REVIEW	14.10.2022	E. GRIFFITH	05	FOR REVIEW	12.10.2022	E. GRIFFITH	04	FOR REVIEW	01.09.2022	M. KEDDELL	03	FOR REVIEW	10.08.2022	R. MARSH	02	FOR REVIEW	23.06.2022	R. WOOD	01	PUBLIC EXHIBITION	02.05.2022	R. WOOD	<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>E. GRIFFITH</td> <td>14.10.2022</td> </tr> <tr> <td>M. KEDDELL</td> <td>14.10.2022</td> </tr> <tr> <td>R. MARSH</td> <td>14.10.2022</td> </tr> <tr> <td>R. WOOD</td> <td>14.10.2022</td> </tr> <tr> <td>R. NAYLOR</td> <td>14.10.2022</td> </tr> </table>		NAME	DATE	E. GRIFFITH	14.10.2022	M. KEDDELL	14.10.2022	R. MARSH	14.10.2022	R. WOOD	14.10.2022	R. NAYLOR	14.10.2022	<p>Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.</p>				<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN ROAD INFRASTRUCTURE MULTI SPAN BRIDGE BARRIERS</p>	
REV	DESCRIPTION	DATE	APPROVED BY																																														
06	FOR REVIEW	14.10.2022	E. GRIFFITH																																														
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<p>DOT DRAWING No. _____ Rev. _____</p>				<p>PROJECT CONTRACT: _____</p>		<p>NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0114</p>		<p>SUIT. CODE: _____ REVISION: 06</p>																																									

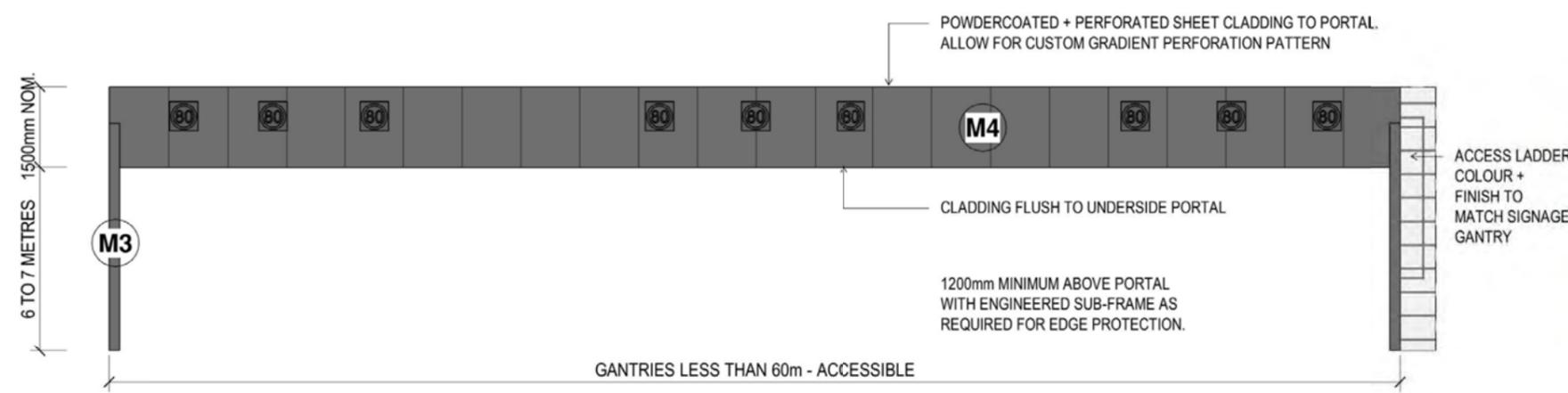
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GANTRY TYPE 1 SINGLE PLANE TRUSS NON-ACCESSIBLE ELEVATION
1 : 200



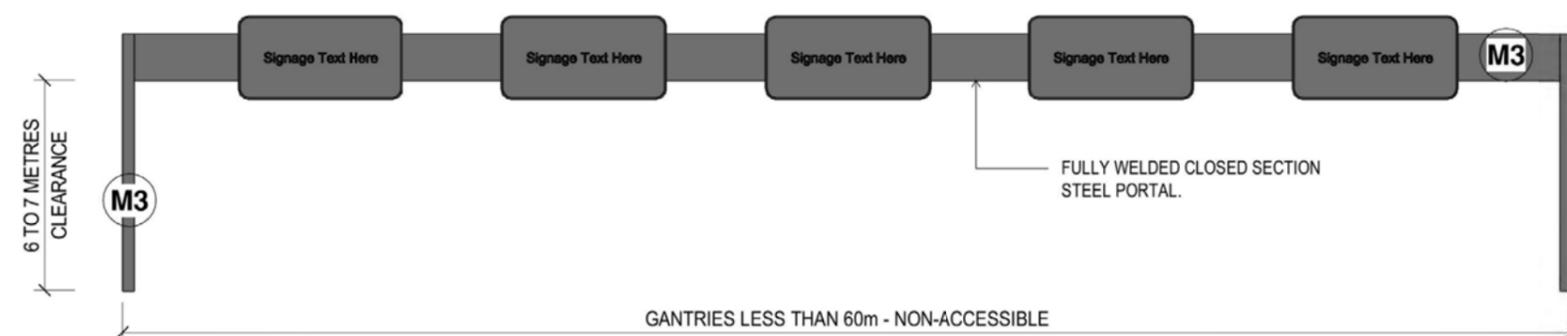
TYPE 1



GANTRY TYPE 2 THROUGH TRUSS ACCESSIBLE ELEVATION
1 : 200



TYPE 2

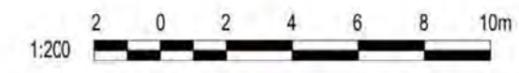


GANTRY TYPE 3 STEEL PORTAL NON-ACCESSIBLE ELEVATION
1 : 200



TYPE 3

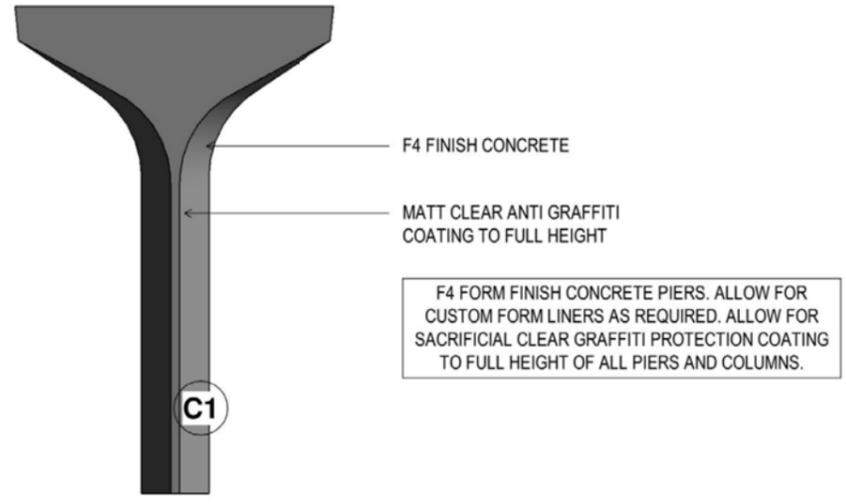
- TYPICAL NOTES:**
1. FULLY WELDED CLOSED SECTION STEEL PORTAL GANTRY.
 2. WELDED END PLATES TO ALL TUBE SECTIONS.
 3. CHARCOAL GREY POLYSILOXANE PAINT FINISH TO ALL MEMBERS UNLESS NOTED OTHERWISE.



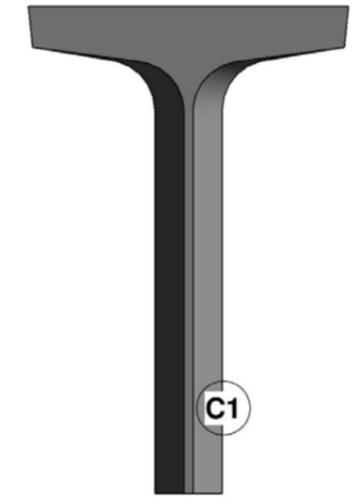
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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY: E. GRIFFITH	14.10.2022	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN ROAD INFRASTRUCTURE GANTRIES DETAILS		
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03	FOR REVIEW	10.08.2022	VERIFIED BY: R. WOOD	14.10.2022			
02	FOR REVIEW	23.06.2022	APPROVED BY: R. NAYLOR	14.10.2022			
01	PUBLIC EXHIBITION	02.05.2022			PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0116 SUIT. CODE: REVISION: 06		
REVISIONS		APPROVALS		DRAWN: C. EASTWOOD		SCALE: 1:200	

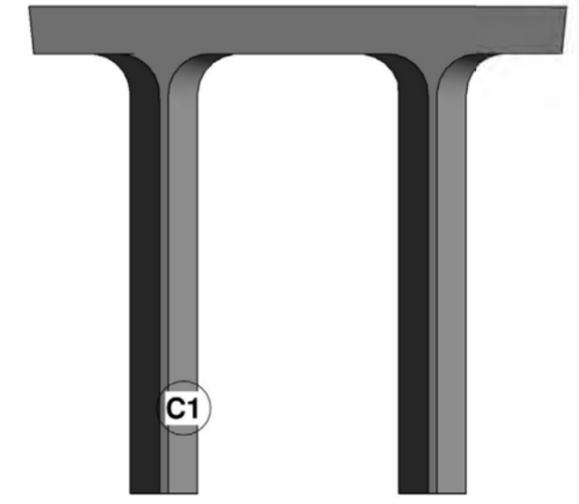
Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.



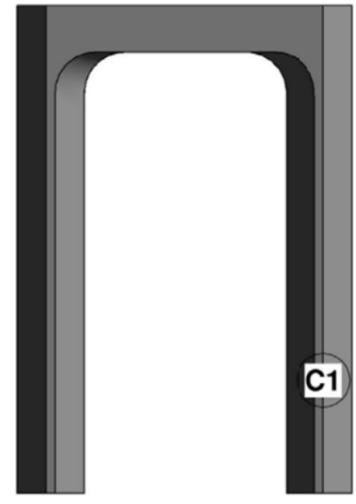
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1 : 200



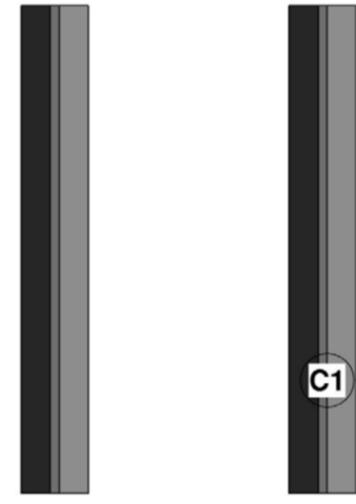
PIERS_TYPE B ELEVATION 1
1 : 200



PIERS_TYPE C ELEVATION 1
1 : 200



PIERS_TYPE D ELEVATION 1
1 : 200



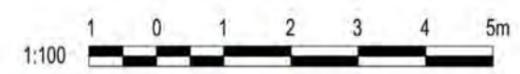
PIERS_TYPE E ELEVATION 1
1 : 200

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE AND SUBJECT TO SPECIALIST CONSULTANT GLARE ASSESSMENT.
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED L.E.D LIGHTS
CUSTOM COLOUR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT.
- M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE.
- M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC. FINISH TO BE NON-REFLECTIVE / NON-GLARE.
- T1** TIMBER ELEMENT
TIMBER WITH CLASS 1 DURABILITY TREATED WITH PENETRATING OIL-BASED WOOD STABILISER.
- G1** ACRYLIC PANELS
SEMI-TRANSPARENT PANEL WITH ETCHED FINISH / GRADUAL OPACITY TO TOP OF PANEL. INTEGRAL BLACK POLYIMIDE THREADS FOR SHATTER / BIRD PROTECTION.
- G2** PHOTOVOLTAIC PANELS
PANEL EXTENT AND LOCATIONS SUBJECT TO SPECIALIST SOLAR ASSESSMENT.
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
- C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: 67.5MM DEEP CAST PATTERN. / OXIDE COLOUR TBC. NON FILM-FORMING ANTI-GRAFFITI COATING.

A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE URBAN DESIGN ELEMENTS AND MATERIAL AND FINISHES WILL BE ADJUSTED ACCORDINGLY. COLOURS TO BE GENERALLY IN ALIGNMENT WITH THE MUNSSELL COLOUR CHART, SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.

LOCATION NOTE:
TYPICALLY TO EASTERN FREEWAY RAMP EDGES.
REFER TO WALL MARKING PLANS FOR FURTHER LOCATIONS.



NOTE: PIER TYPES SHOW DESIGN INTENT ONLY. ACTUAL THICKNESS SUBJECT TO ENGINEERING ADVICE

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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY	E. GRIFFITH					14.10.2022	ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN	
05	FOR REVIEW	12.10.2022	DESIGNED BY	M. KEDDELL	14.10.2022	ROAD INFRASTRUCTURE PIER TYPE A, B, C, D & E					
04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY	R. MARSH	14.10.2022	PROJECT CONTRACT:					
03	FOR REVIEW	10.08.2022	VERIFIED BY	R. WOOD	14.10.2022	NEL DRAWINGS No: NEL-CNT-WMI-2990-UUD-DRG-0117					
02	FOR REVIEW	23.06.2022	APPROVED BY	R. NAYLOR	14.10.2022	SUIT. CODE					
01	PUBLIC EXHIBITION	02.05.2022	APPROVALS		DRAWN: C. EASTWOOD	SIZE: A3	SCALE: As indicated	CAD FILE: NEL-PW-SPK-9990-UUD-MD3-0001.rvt	REVISION		
REV	DESCRIPTION	DATE							06		

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NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 1 - ARCHITECTURE & URBAN DESIGN SOUTHERN INTERFACE ZONE



DRAWING NUMBER	TITLE
NEL-CNT-WMI-2991-UUD-DRG-0130	UDLP SOUTHERN INTERFACE COVER SHEET
NEL-CNT-WMI-2991-UUD-DRG-0131	UDLP SOUTHERN INTERFACE MARKING PLAN
NEL-CNT-WMI-2991-UUD-DRG-0132	UDLP SOUTHERN INTERFACE VIEWS 1
NEL-CNT-WMI-2991-UUD-DRG-0133	UDLP SOUTHERN INTERFACE VIEWS 2
NEL-CNT-WMI-2991-UUD-DRG-0134	UDLP SOUTHERN INTERFACE NOISE WALLS / ROAD BARRIERS
NEL-CNT-WMI-2991-UUD-DRG-0135	UDLP SOUTHERN INTERFACE SECTIONS 01
NEL-CNT-WMI-2991-UUD-DRG-0136	UDLP SOUTHERN INTERFACE SECTIONS 02
NEL-CNT-WMI-2991-UUD-DRG-0137	UDLP SOUTHERN INTERFACE SECTIONS 03
NEL-CNT-WMI-2991-UUD-DRG-0138	UDLP SOUTHERN INTERFACE BULLEEN SUP BRIDGE PLAN, ELEVATION
NEL-CNT-WMI-2991-UUD-DRG-0139	UDLP SOUTHERN INTERFACE BULLEEN SUP BRIDGE PERSPECTIVES
NEL-CNT-WMI-2991-UUD-DRG-0140	UDLP SOUTHERN INTERFACE UNDERPASSES
NEL-CNT-WMI-2991-UUD-DRG-0141	UDLP SOUTHERN INTERFACE (BR310) 01
NEL-CNT-WMI-2991-UUD-DRG-0142	UDLP SOUTHERN INTERFACE (BR310) 02
NEL-CNT-WMI-2991-UUD-DRG-0143	UDLP SOUTHERN INTERFACE (BR 309) 01
NEL-CNT-WMI-2991-UUD-DRG-0144	UDLP SOUTHERN INTERFACE (BR 309) 02
NEL-CNT-WMI-2991-UUD-DRG-0145	UDLP SOUTHERN INTERFACE (BR 303) 01
NEL-CNT-WMI-2991-UUD-DRG-0146	UDLP SOUTHERN INTERFACE (BR 303) 02
NEL-CNT-WMI-2991-UUD-DRG-0147	UDLP SOUTHERN INTERFACE BULLEEN ROAD BRIDGE (BR 305)
NEL-CNT-WMI-2991-UUD-DRG-0148	UDLP SOUTHERN INTERFACE (BR 301) WEST 01
NEL-CNT-WMI-2991-UUD-DRG-0149	UDLP SOUTHERN INTERFACE (BR 301) WEST 02
NEL-CNT-WMI-2991-UUD-DRG-0150	UDLP SOUTHERN INTERFACE (BR 301) EAST 01
NEL-CNT-WMI-2991-UUD-DRG-0151	UDLP SOUTHERN INTERFACE (BR 301) EAST 02
NEL-CNT-WMI-2991-UUD-DRG-0152	UDLP SOUTHERN INTERFACE (BR 319) 01
NEL-CNT-WMI-2991-UUD-DRG-0153	UDLP SOUTHERN INTERFACE (BR 319) 02
NEL-CNT-WMI-2991-UUD-DRG-0154	UDLP SOUTHERN INTERFACE (BR 320) 01

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REV	DESCRIPTION	DATE	APPROVED	APPROVALS
06	FOR REVIEW	14.10.2022	DRAFTING	
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02	FOR REVIEW	23.06.2022	CHECKED BY	R. MARSH
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD
			APPROVED	R. NAYLOR

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DOT DRAWING No.:	Rev.:
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN UDLP SOUTHERN INTERFACE COVER SHEET	
PROJECT CONTRACT:	NEL DRAWING No.:
CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt	NEL-CNT-WMI-2990-UUD-DRG-0130
SUIT. CODE	REVISION
	06

	GPO BOX 4558 MELBOURNE VICTORIA, 3001 PHONE 182 152 152	
Protective Marking: OFFICIAL: Sensitive	PROJECT CONTRACT:	

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- MATERIALS AND FINISHES**
- M1 METAL PANEL WITH SELECTED COLOUR CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIALIST CONSULTANT APPROVAL
 - M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND ARCHITECT TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT
 - M3 METAL SUPPORT / STANCHION PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR FINISH TO BE NON-REFLECTIVE, NON-GLOSS
 - M4 METAL PANEL - PERFORATED PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR FINISH TO BE NON-REFLECTIVE, NON-GLOSS
 - M5 METAL PANEL - STEEL PAINTED FINISH - CHARCOAL FINISH ON GALVANIZED STEEL
 - S1 WIRE MESH PROTECTION SCREEN MESH DIMENSION TO CUSTOM MANUFACTURED SHAPES FINISH TO BE STAINLESS STEEL
- ACRYLIC PANELS**
- G1 G1875 PANELED PANEL WITH ETCHED / MESH GRADUAL OPACITY TO TOP OF PANEL. VERTICAL BLACK COLOUR STRIPS SPACED FOR SHEDDING SPECIFICATION
 - G2 PHOTOVOLTAIC PANELS PANEL SIZE AND LOCATION SUBJECT TO SPECIALIST SOLAR ASSESSMENT
 - C1 SMOOTH CONCRETE FINISH
 - C2 SMOOTH CONCRETE FINISH WITH SELECT OXIDE COLOUR DERIVED FROM THE MUNDRA COLOUR CHART
 - C3 TEST LITTED CONCRETE WITH SELECT COLOUR TOP COAT AT 10% SOLIDS CONTENT. COLOUR TO MATCH THE NON-FULL-COVERAGE ANTI-GRAFFITI COATING
 - T1 TIMBER ELEMENT FINISH TO MATCH LOCAL TIMBER. TREATED WITH ANTIMONY OIL. MATCH WOOD STAIN/STAINERS

SOUTHERN INTERFACE BRIDGE INDEX

DRAWING No.	BRIDGE NAME	LANDSCAPE SECTION NUMBER
0141	BR310 VIADUCT / ROAD BRIDGE BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB	ATT. 2
0143	BR309 VIADUCT / ROAD BRIDGE BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB	0023
0145	BR303 VIADUCT / ROAD BRIDGE BRIDGE STRUCTURE - BR 303 - NEL SB TO EASTERN FREEWAY WB	VIEW 1
0147	BULLEEN ROAD BRIDGE BRIDGE STRUCTURE - BR 305 - BULLEEN ROAD BRIDGE	BR309 0023

SOUTHERN INTERFACE PLAN SYMBOLS

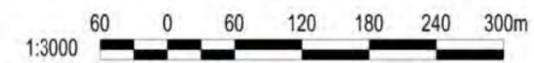
- 1 LANDSCAPE SECTION NUMBER ATTACHMENT 2 SECTION REFERENCE NO.
- 0023 3D PERSPECTIVE VIEW SHEET REFERENCE NO.
- BR309 BRIDGE ELEVATION SHEET REFERENCE NO.

SOUTHERN INTERFACE PLAN
NTS

NOTE: SOUTHERN INTERFACE MARKING PLAN FOR VIEW REFERENCE PURPOSES ONLY. REFER NEL-CNT-WMI-2990-UUD-DRG-0104 FOR ADDITIONAL DETAILS.

NOTE: NOISE WALL, BRIDGE BARRIER & GANTRY LOCATIONS SUBJECT TO FINAL ENGINEERING ADVICE AND DETAILED DESIGN 1:500

NOTE: NOISE WALL HEIGHTS ARE SHOWN LY FROM THE GROUND LEVEL / TOP OF RETAINING WALL AND NOT FROM THE HEIGHTS ABOVE ROAD SURFACE LEVEL.



NOTE: REFER TO NEL-CNT-WMI-2990-UUD-DRG-0104 FOR NOISE WALL AND BARRIER TYPES.

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SOUTHERN INTERFACE WEST BOUND - VIEW 1
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS VIEW.



SOUTHERN INTERFACE EAST BOUND - VIEW 2
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS VIEW.



SOUTHERN INTERFACE NORTH BOUND - VIEW 3
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS VIEW.



SOUTHERN INTERFACE SOUTH BOUND - VIEW 4
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS VIEW.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

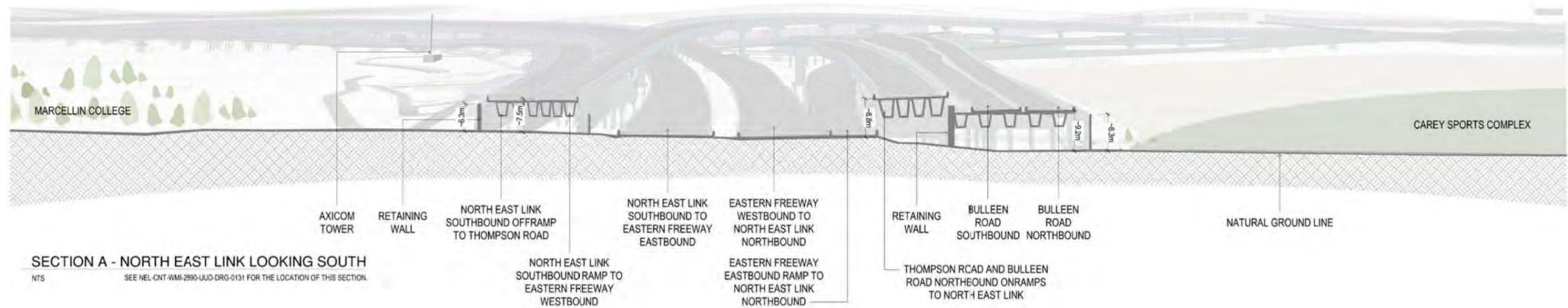
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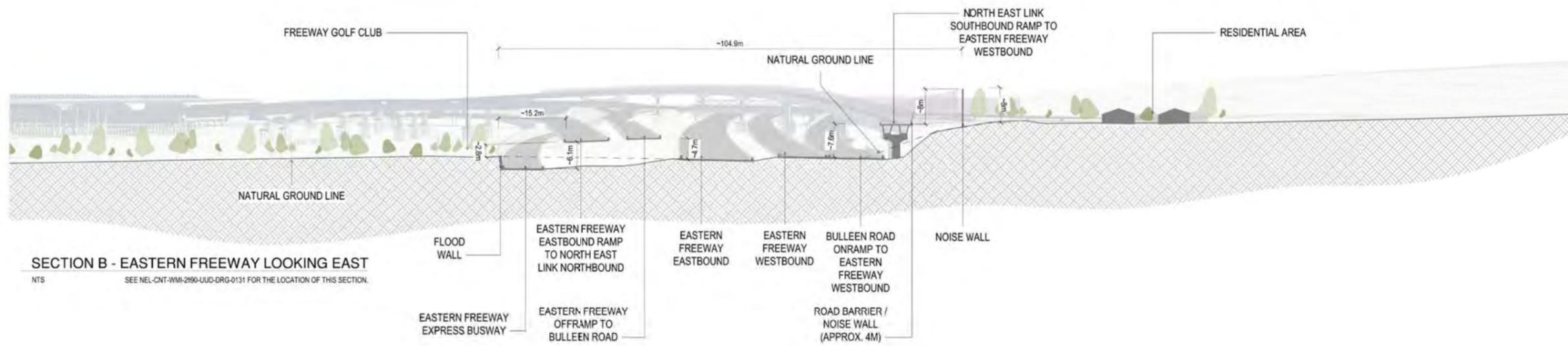
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 CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt
 PROJECT CONTRACT:

DOT DRAWING No.:		Rev.:
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN UDLP SOUTHERN INTERFACE VIEWS 1		
NELP DRAWING No.:	SUIT. CODE	REVISION
NEL-CNT-WMI-2990-UUD-DRG-0132		06

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SECTION A - NORTH EAST LINK LOOKING SOUTH
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS SECTION.



SECTION B - EASTERN FREEWAY LOOKING EAST
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS SECTION.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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06	FOR REVIEW	14.10.2022	
05	FOR REVIEW	12.10.2022	
04	FOR REVIEW	01.09.2022	
03	FOR REVIEW	10.08.2022	
02	FOR REVIEW	23.06.2022	
01	PUBLIC EXHIBITION	02.05.2022	

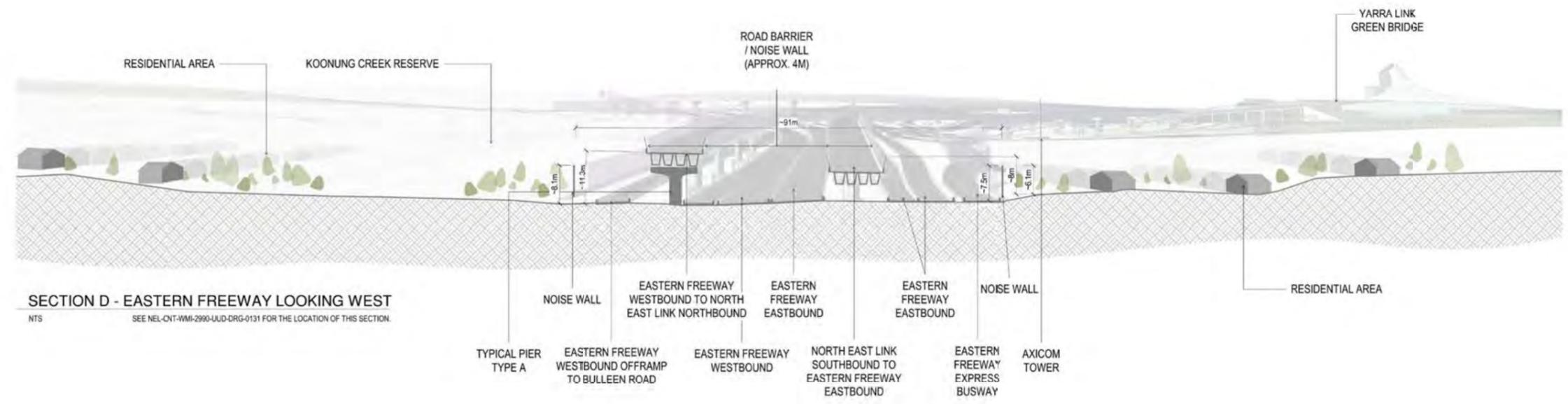
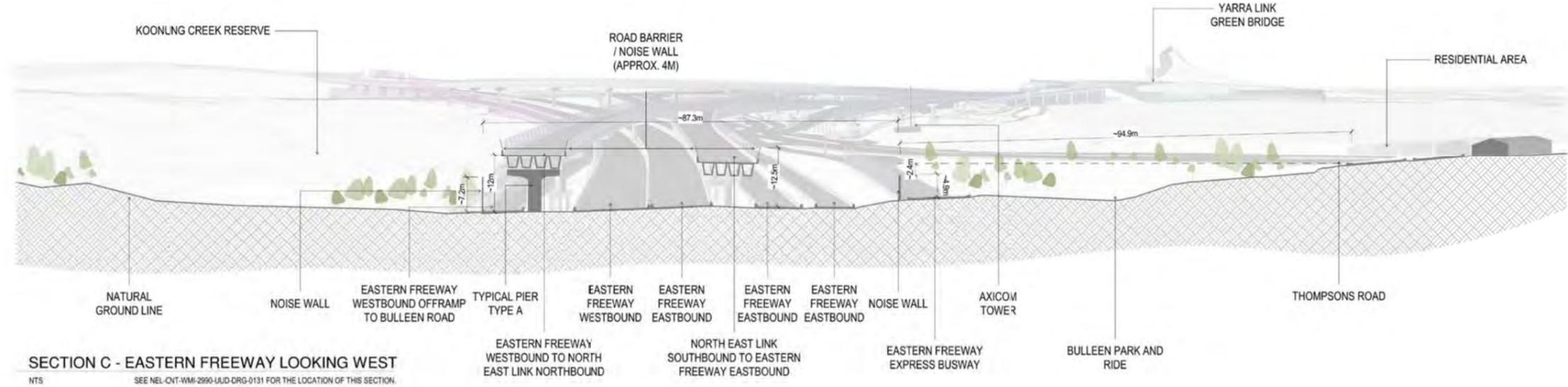
NAME	DATE
E. GRIFFITH	14.10.2022
M. KEDDELL	14.10.2022
R. MARSH	14.10.2022
R. WOOD	14.10.2022
R. NAYLOR	14.10.2022

DESCRIPTION	DATE
DRAFTING	14.10.2022
CHECKED BY	12.10.2022
DESIGNED BY	01.09.2022
ENGINEERING	10.08.2022
CHECKED BY	23.06.2022
VERIFIED BY	02.05.2022
APPROVED	14.10.2022

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NORTH EAST LINK TUNNELS UDLP ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN UDLP SOUTHERN INTERFACE SECTIONS 01		
PROJECT CONTRACT:	NEL DRAWING No.:	SUIT. CODE
CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt	NEL-CNT-WMI-2990-UUD-DRG-0135	06

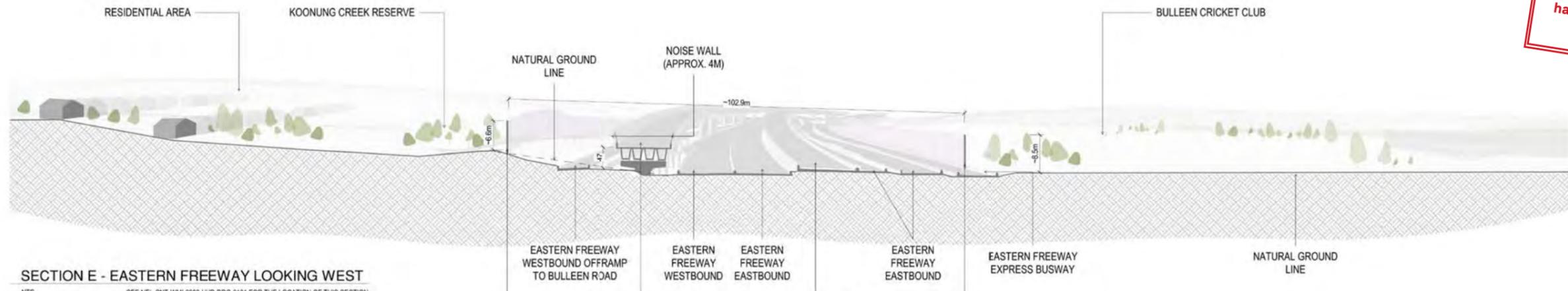
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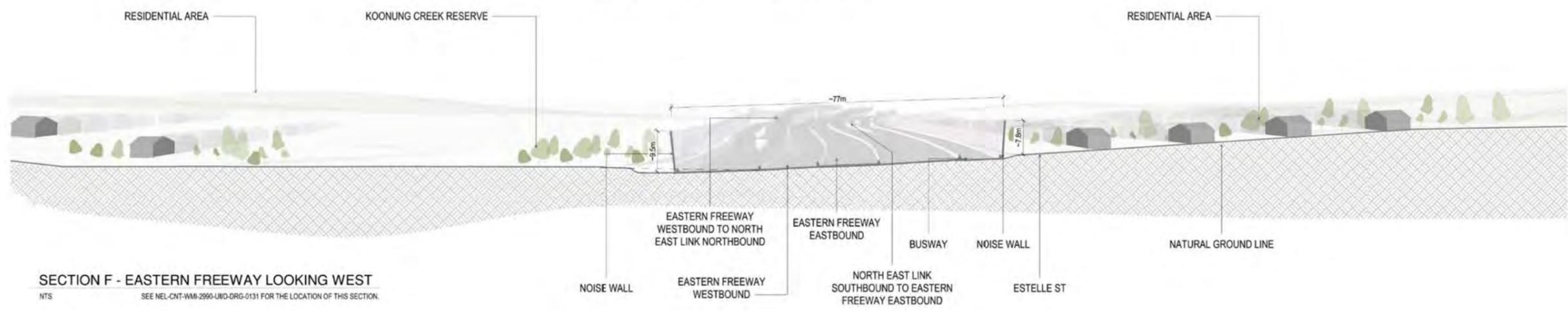
DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	
02	FOR REVIEW	23.06.2022	CHECKED BY	R. NAYLOR	
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	
REV	DESCRIPTION	DATE	APPROVED	APPROVALS	
	REVISIONS			APPROVALS	
			DRAWN: J. HO	SIZE: A1	SCALE: 1:5
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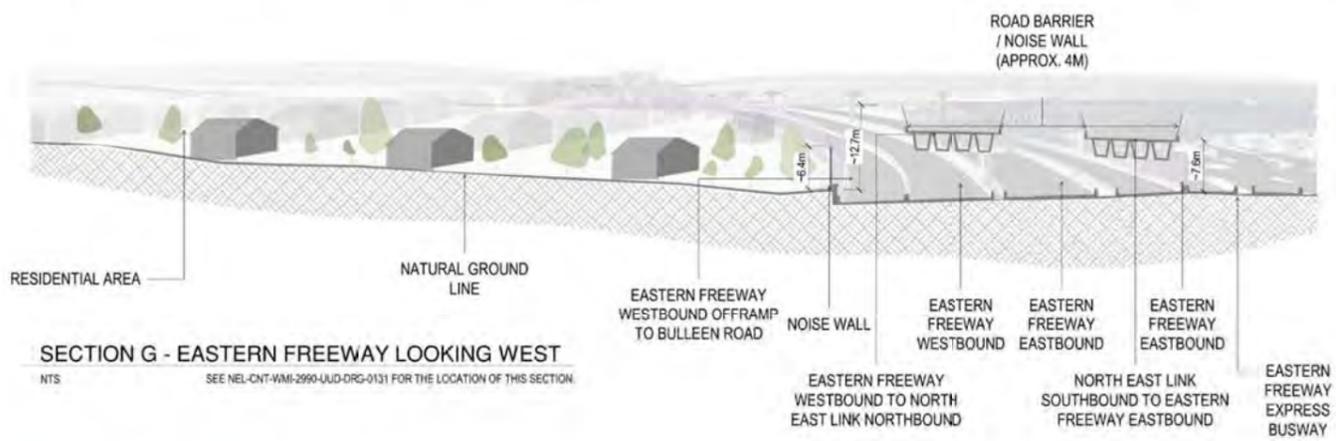
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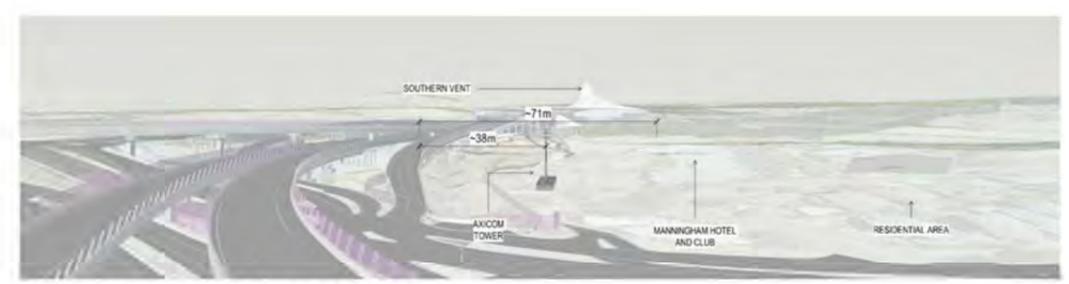
SECTION E - EASTERN FREEWAY LOOKING WEST
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS SECTION.



SECTION F - EASTERN FREEWAY LOOKING WEST
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS SECTION.



SECTION G - EASTERN FREEWAY LOOKING WEST
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS SECTION.



SOUTHERN INTERFACE AXICOM TOWER - VIEW 14
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0131 FOR THE LOCATION OF THIS VIEW.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVALS
06	FOR REVIEW	14.10.2022	
05	FOR REVIEW	12.10.2022	
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03	FOR REVIEW	10.08.2022	
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DESIGNED BY: R. MARSH	14.10.2022	
ENGINEERING CHECKED BY: R. WOOD	14.10.2022	
VERIFIED BY: R. NAYLOR	14.10.2022	
APPROVED:	14.10.2022	

GPB 8218 4538
481 BULLOCK
VICTORIA 3061
PHONE 180 100 100

DOT DRAWING No. _____ Rev. _____

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE SECTIONS 03

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt

PROJECT CONTRACT: _____

NELP DRAWING No. _____

SUIT. CODE _____

REVISION **06**

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BULLEEN SUP PLAN
NTS



BULLEEN SUP ELEVATION
NTS

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

NOTE: BULLEEN SUP BRIDGE IS LY SHOWN AND SUBJECT TO DETAILED DESIGN



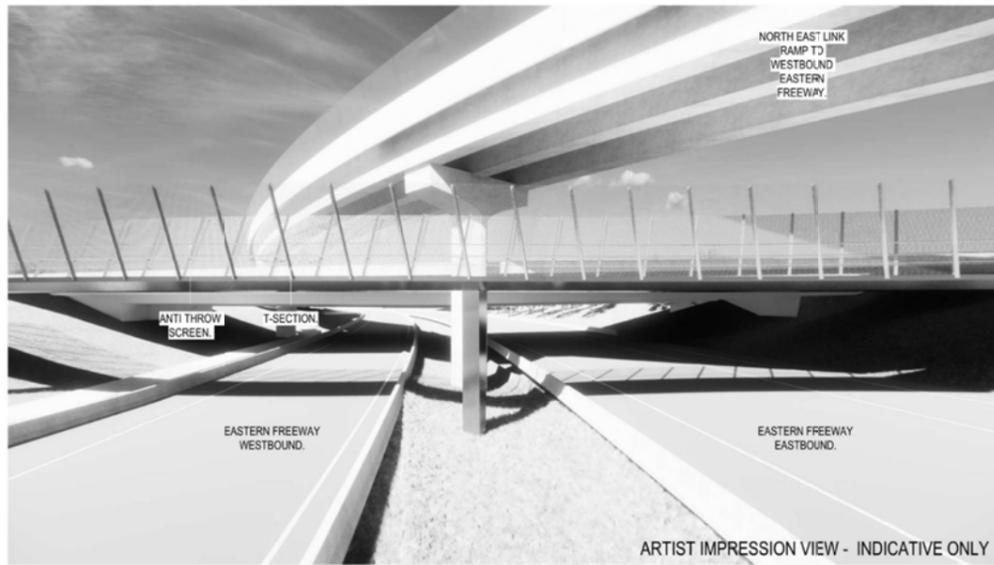
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03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	14.10.2022	
02	FOR REVIEW	23.06.2022	CHECKED BY	R. WOOD	14.10.2022	
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	14.10.2022	
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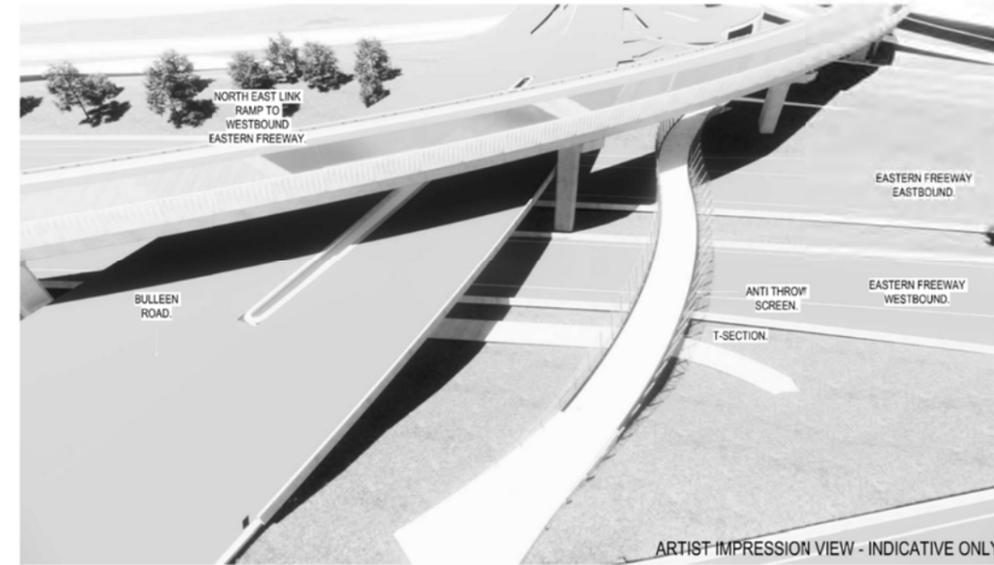
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 ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
 UDLP SOUTHERN INTERFACE BULLEEN SUP BRIDGE PLAN, ELEVATION

PROJECT CONTRACT: _____
 NEL DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0138
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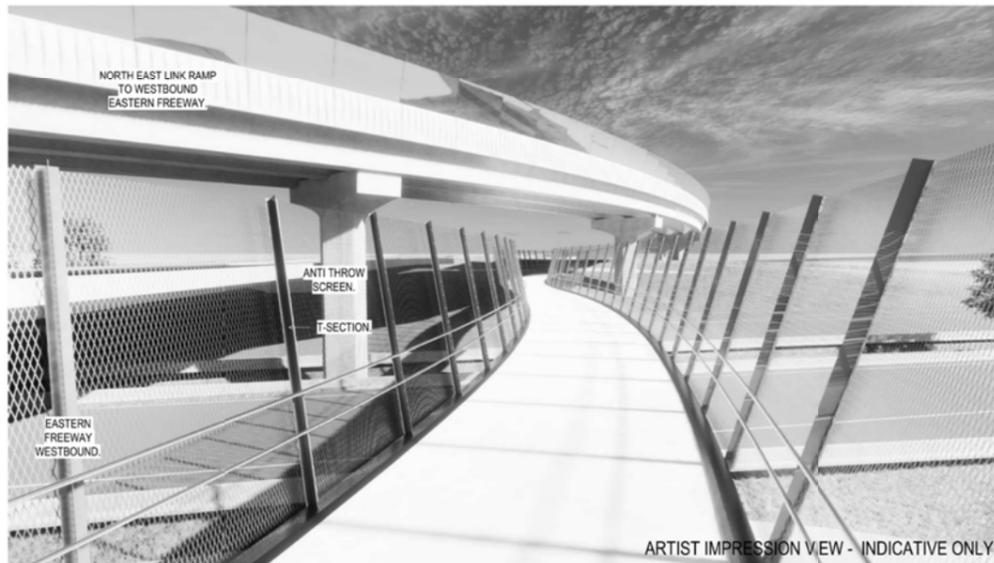
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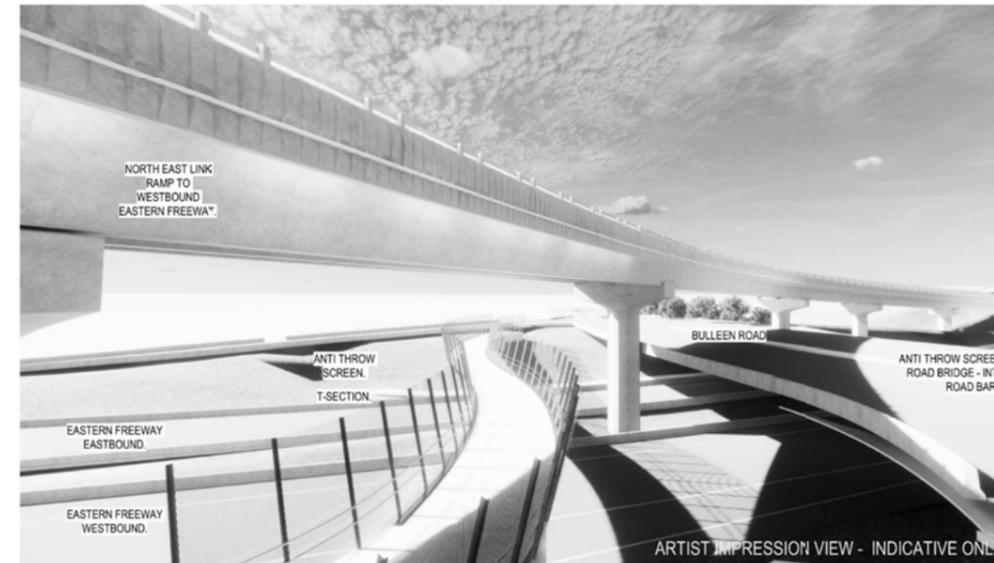
BULLEEN SUP VIEW 01
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0138 FOR THE LOCATION OF THIS VIEW.



BULLEEN SUP VIEW 02
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0138 FOR THE LOCATION OF THIS VIEW.



BULLEEN SUP VIEW 03
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0138 FOR THE LOCATION OF THIS VIEW.



BULLEEN SUP VIEW 04
NTS SEE NEL-CNT-WMI-2990-UUD-DRG-0138 FOR THE LOCATION OF THIS VIEW.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

NOTE: BULLEEN SUP BRIDGE IS LY SHOWN AND SUBJECT TO DETAILED DESIGN

NOTE: BRIDGE NAMING TO ALIGN WITH PROJECT STRATEGY AFTER FURTHER CONSULTATION

06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022
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REV	DESCRIPTION	DATE	APPROVED
	REVISIONS		

NAME	DATE
E. GRIFFITH	14.10.2022
M. KEDDELL	14.10.2022
R. MARSH	14.10.2022
R. WOOD	14.10.2022
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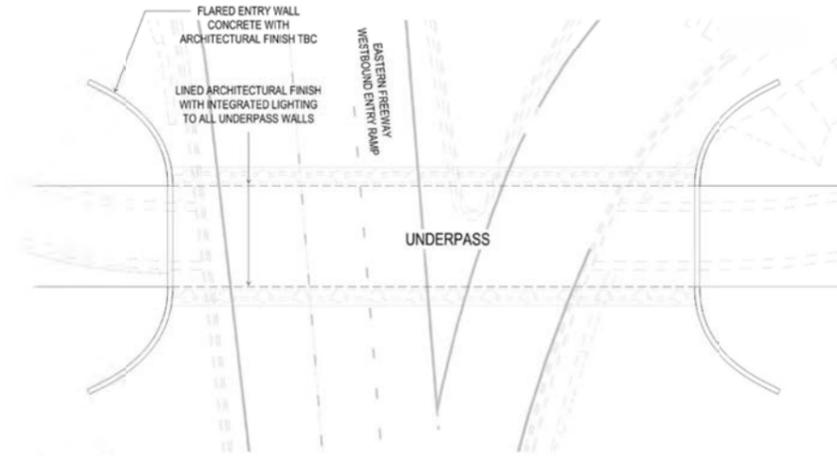
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NELP DRAWING No.:	SUIT. CODE
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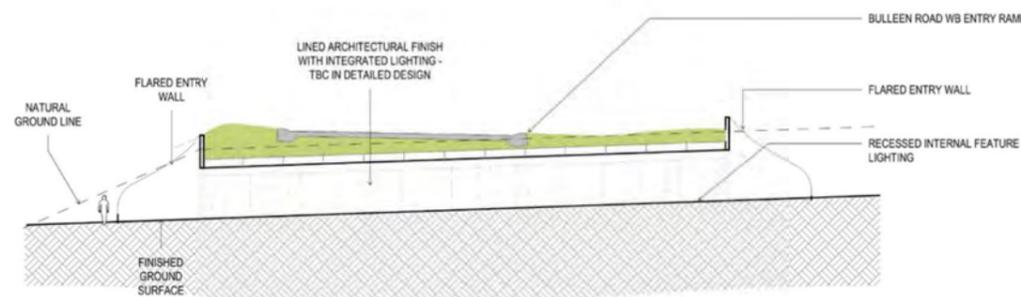
SOUTHERN INTERFACE UNDERPASSES

NTS



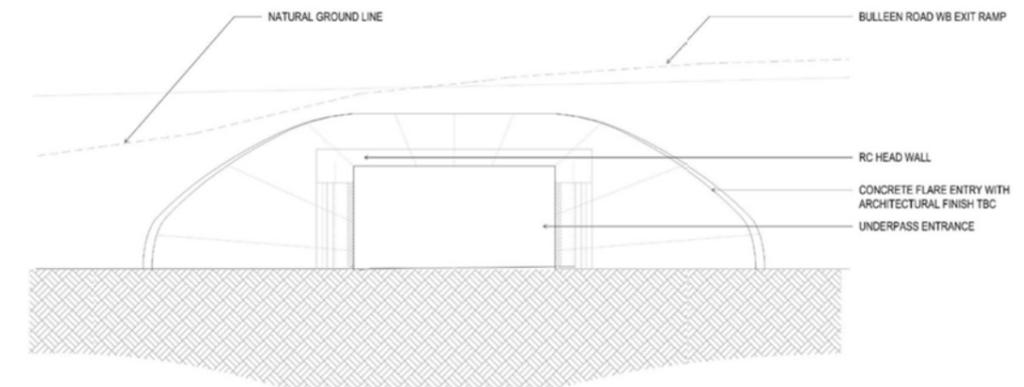
BR307 UNDERPASS PLAN

NTS



SECTION A - BR307 UNDERPASS SECTION + ELEVATION ALL UNDERPASS ELEVATIONS SIMILAR

NTS



ELEVATION 1 - BR307 UNDERPASS ELEVATION

NTS



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

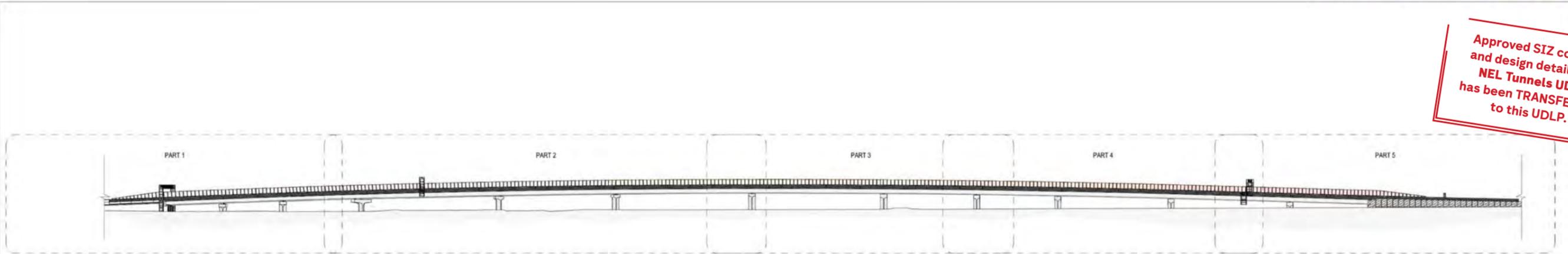
NOTE: BR302 REGARDED AS SIMILAR FOR DESIGN PURPOSES

REV	DESCRIPTION	DATE	APPROVALS
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05	FOR REVIEW	12.10.2022	
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01	PUBLIC EXHIBITION	02.05.2022	

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CHECKED BY: M. KEDDELL	14.10.2022	
DESIGNED BY: R. MARSH	14.10.2022	
ENGINEERING CHECKED BY: R. WOOD	14.10.2022	
VERIFIED BY: R. NAYLOR	14.10.2022	
APPROVED:		

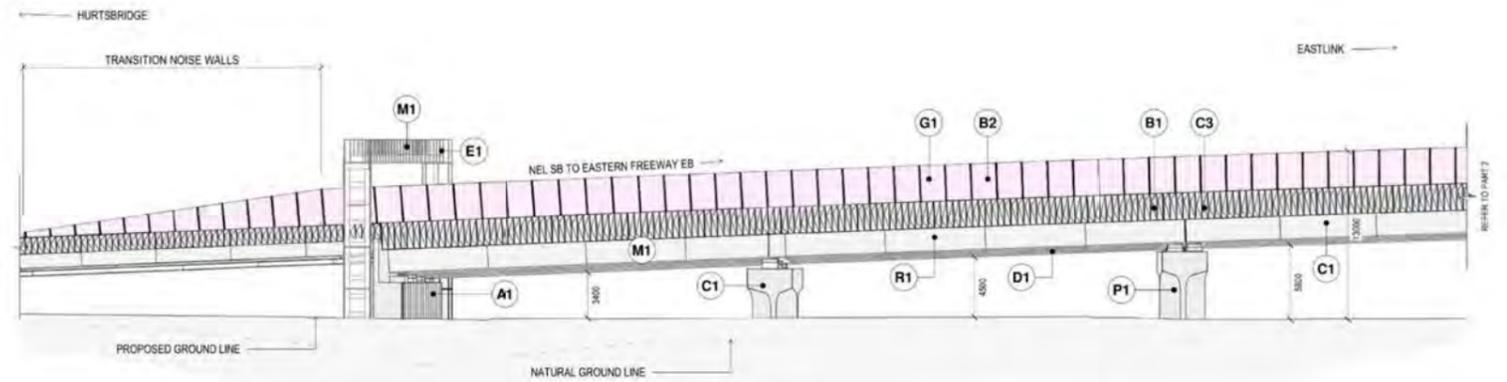
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CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt			SUIT. CODE: 06 REVISION: 06

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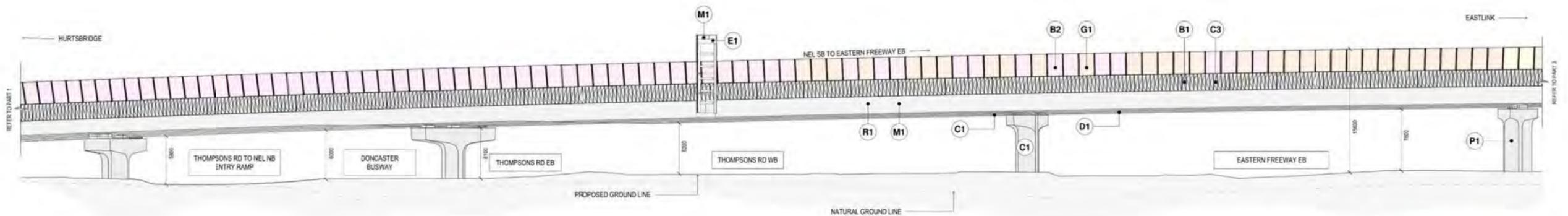
BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 1 - OVERALL ELEVATION

SCALE: NTS



BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 1

SCALE: 1:250



BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 2

SCALE: 1:250

TYPE NOTES

- P1 PIERS
- B1 R/C/A/B BARRIERS
- B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1
- B3 ANTI-TWO-WAY MESH BARRIER
- B4 RAIL BARRIER
- W1 RETAINING WALL - TYPE A
- W2 FLOOD WALL - TYPE A
- A1 ABUTMENT
- R1 BRIDGE GROER
- D1 BRIDGE DECK
- E1 GAVITIES

MATERIALS AND FINISHES

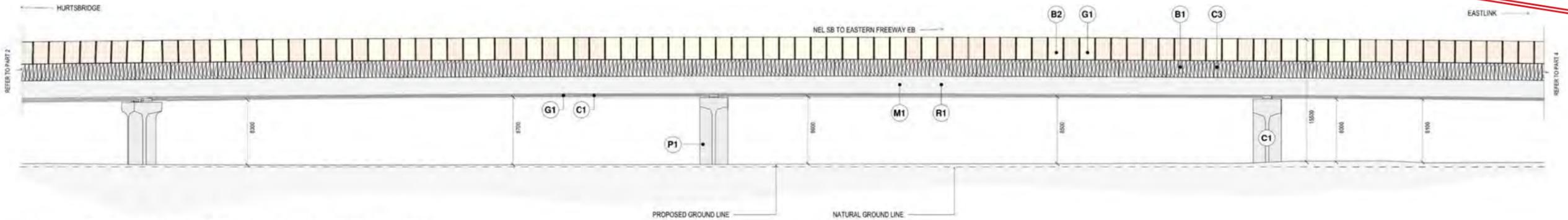
- M1 METAL PANEL WITH SELECTED COLOUR
- M2 METAL PANEL WITH SELECTED COLOUR
- M3 METAL SUPPORT / STANCHION
- M4 METAL PANEL - PERFORATED
- M5 METAL PANEL - STEEL
- S1 WIRE MESH PROTECTION SCREEN
- G1 ACRYLIC PANELS
- G2 PHOTOVOLTAIC PANELS
- C1 SMOOTH CONCRETE FINISH
- C2 SMOOTH CONCRETE FINISH WITH SELECT OXIDE
- C3 TEXTURED CONCRETE WITH SELECT OXIDE
- T1 TIMBER ELEMENT

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

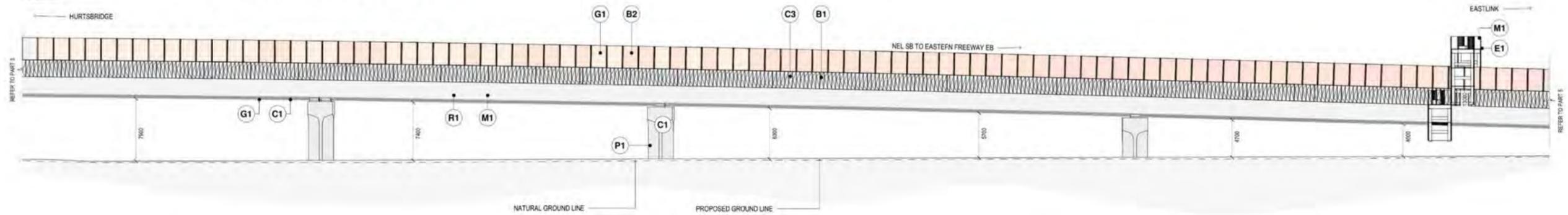
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02	FOR REVIEW	23.06.2022	CHECKED BY	R. MARSH	14.10.2022	DRAWN: J. HO						
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD	14.10.2022	SIZE: A1						
			APPROVED	R. NAYLOR	14.10.2022	SCALE: As indicated						
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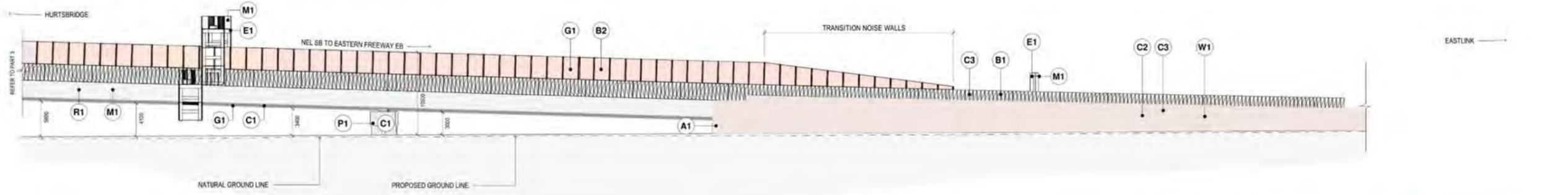
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BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 3
SCALE: 1:250



BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 4
SCALE: 1:250



BRIDGE STRUCTURE - BR 310 - NEL SB TO EASTERN FREEWAY EB - PART 5
SCALE: 1:250

TYPE NOTES

- P1** PIERS
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG: C1
- B1** ROAD BARRIERS
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C1
- B2** MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1
COLOUR: TRC WITH INTEGRAL BLACK POLYURETHANE SHEATH FOR WHITTEN BRIDGE PROTECTION
FINISH: SEMI TRANSPARENT ACRYLIC PANEL MATERIAL TAG: G1
- B3** ANTI-TWIST MESH BARRIER
COLOUR: GALVANIZED STEEL
FINISH: FREE FORM PROTECTION SCREEN MATERIAL TAG: W1
- B4** RAIL BARRIER
COLOUR: CHARCOAL STEEL PAINT
FINISH: GALVANIZED STEEL MATERIAL TAG: M1
- W1** RETAINING WALL - TYPE A
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C1
- W2** FLOOD WALL - TYPE A
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C1
- A1** ABUTMENT
COLOUR: LIGHT GREY STEEL PAINT
FINISH: POLISHED STEEL MATERIAL TAG: M1
- R1** BRIDGE GIRDERS
COLOUR: LIGHT GREY STEEL PAINT
FINISH: POLISHED STEEL MATERIAL TAG: M1
- D1** BRIDGE DECK
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG: C1
- E1** GANTRY BEAMS
COLOUR: DARK GREY STEEL PAINT
FINISH: STEEL MATERIAL TAG: M1

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIALIST CONSULTANT DUNE ASSESSMENT
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS
CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIALIST CONSULTANT DUNE ASSESSMENT
- M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH BACKGROUND FINISH ON TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS
- M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH BACKGROUND FINISH ON TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS
- M5** METAL PANEL - STEEL
PAINTED FINISH - CHARCOAL
FINISH: GALVANIZED STEEL
- S1** WIRE MESH PROTECTION SCREEN
MESH: FREE FORM ENGINEERING TO CUSTOM MANUFACTURE SHAPES
FINISH: STEEL STANCHION STEEL
- G1** ACRYLIC PANELS
SEMI TRANSPARENT PANEL WITH 50% TRANSPARENCY TO TOP OF PANEL
INTERNAL BLACK POLYURETHANE SHEATH FOR WHITTEN BRIDGE PROTECTION
- G2** PHOTOVOLTAIC PANELS
PANEL: 6000MM X 1000MM SUBJECT TO SPECIALIST SOLAR ASSESSMENT
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT COLOUR
COLOUR: SELECTED FROM THE MATERIALS COLOUR CHART
- C3** TEXTURED CONCRETE WITH SELECT COLOUR
COLOUR: SELECTED FROM THE MATERIALS COLOUR CHART
FINISH: 4mm x 4mm x 4mm x 4mm x 4mm
- T1** TIMBER ELEMENT
MESH: 8000MM X 4000MM X 40MM
FINISH: PAINTED WITH PINKISH-TAN OIL BASED INDUSTRIAL PAINT

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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			APPROVED	R. NAYLOR	14.10.2022	

MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY
VICTORIA'S BIG BUILD

DOT DRAWING No.:
Rev:

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE (BR310) 02

Protective Marking: **OFFICIAL: Sensitive**

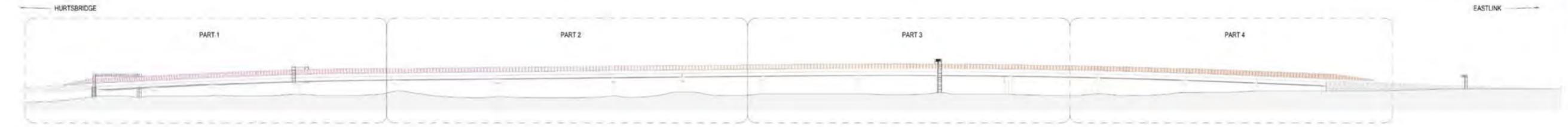
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PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0142

SUIT. CODE: 06

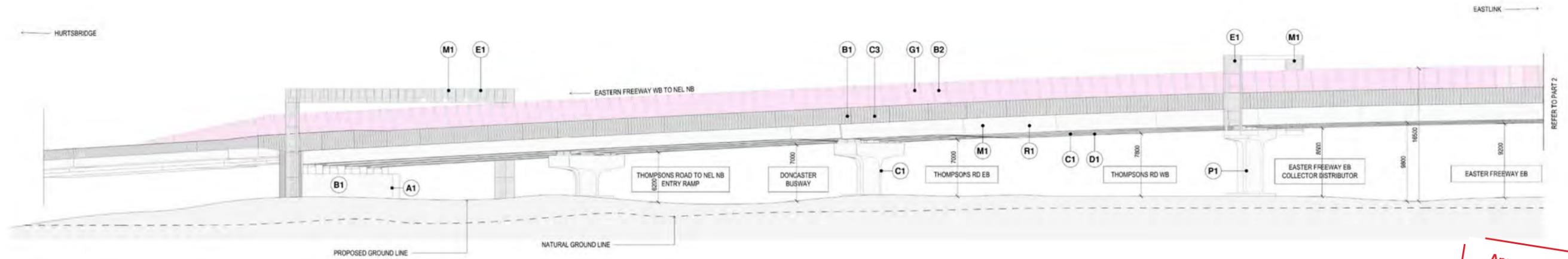
REVISION: 06

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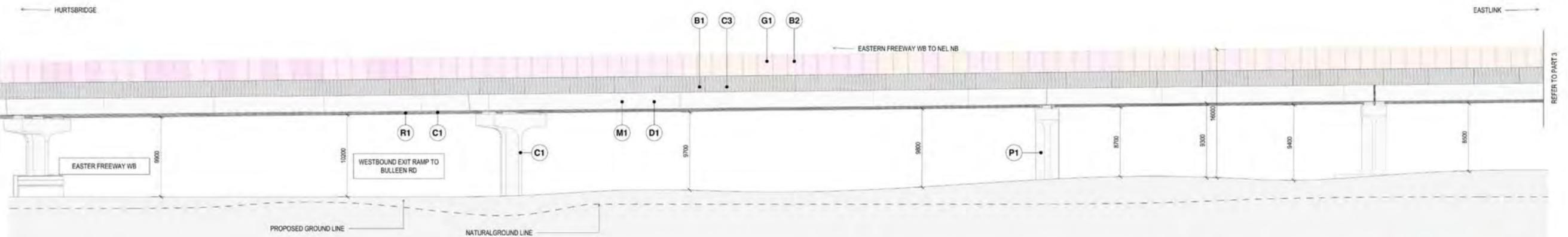
BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB - OVERALL ELEVATION

SCALE: 1:1250



BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB - PART 1

SCALE: 1:250



BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB - PART 2

SCALE: 1:250

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TYPE NOTES

- P1 PIERS: COLOUR GREY CONCRETE; FINISH SMOOTH CONCRETE MATERIAL TAG C1
- B1 ROAD BARRIERS: GALVALUME COLOUR TRC; FINISH TEXTURED CONCRETE MATERIAL TAG C2
- B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1: COLOUR TRC WITH METALLIC BLACK POLYURETHANE THREADS FOR SHATTER BAND PROTECTION; FINISH SEMI-TRANSPARENT ACRYLIC PANEL MATERIAL TAG D1
- B3 ANTI-THROW MESH BARRIER: COLOUR SPARKLY STEEL; FINISH WIRE MESH PROTECTION SCREEN MATERIAL TAG M1
- B4 RAIL BARRIER: COLOUR CHARCOAL STEEL PAINT; FINISH GALVANIZED STEEL MATERIAL TAG M1
- W1 RETAINING WALL - TYPE A: COLOUR ORANGE COLOUR TRC; FINISH TEXTURED CONCRETE MATERIAL TAG C2 AND C3
- W2 FLOOD WALL - TYPE A: COLOUR ORANGE COLOUR TRC; FINISH TEXTURED CONCRETE MATERIAL TAG C3
- A1 ABUTMENT: COLOUR ORANGE COLOUR TRC; FINISH TEXTURED CONCRETE MATERIAL TAG C3
- R1 BRIDGE GRINDER: COLOUR LIGHT GREY STEEL PAINT; FINISH METAL PANEL, IN SELECTED COLOUR MATERIAL TAG M1
- D1 BRIDGE DECK: COLOUR GREY CONCRETE; FINISH SMOOTH CONCRETE MATERIAL TAG C1
- E1 GAVTRIES: COLOUR DARK GREY STEEL PAINT; FINISH METAL PANEL MATERIAL TAG M1

MATERIALS AND FINISHES

- M1 METAL PANEL WITH SELECTED COLOUR: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE (NON-SLARE) AND SUBJECT TO SPECIFIC CONSULTANT SLARE ASSESSMENT
- M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE (NON-SLARE) AND SUBJECT TO SPECIFIC CONSULTANT SLARE ASSESSMENT
- M3 METAL SUPPORT / STANCHION: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC; FINISH TO BE NON-REFLECTIVE (NON-SLARE)
- M4 METAL PANEL - PERFORATED: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC; FINISH TO BE NON-REFLECTIVE (NON-SLARE)
- M5 METAL PANEL - STEEL: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC; FINISH TO BE NON-REFLECTIVE (NON-SLARE)
- S1 WIRE MESH PROTECTION SCREEN: MESH 20MM APERTURE TO CUSTOM MANUFACTURED SHAPES; FINISH 100% GALVANIZED STEEL
- G1 ACRYLIC PANELS: 2000x1000mm PANEL WITH ETTCHED FINISH (GRANULAR OPACITY TO TOP OF PANEL, INTEGRAL BLACK POLYURETHANE THREADS FOR SHATTER BAND PROTECTION)
- G2 PHOTOVOLTAIC PANELS: PANEL (EXTRINSIC AND/OR INTRINSIC) TO SPECIFIC SIZING AND ASSESSMENT
- C1 SMOOTH CONCRETE FINISH
- C2 SMOOTH CONCRETE F1 FINISH WITH SELECT DECK
- C3 TEXTURED CONCRETE WITH SELECT COLOUR: COLOUR OF FINISH TO BE SELECTED TO MATCH THE FINISH OF THE ADJACENT FINISH OR TRC
- T1 TAMPER ELEMENT: FINISH TO BE GALVANIZED STEEL

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DATE	NAME	DATE	Conditions of Use
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022			This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.
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04	FOR REVIEW	01.09.2022	DESIGNED BY	M. KEDDELL	14.10.2022			
03	FOR REVIEW	10.08.2022	ENGINEERING	R. MARSH	14.10.2022			
02	FOR REVIEW	23.06.2022	CHECKED BY					
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD	14.10.2022			
			APPROVED	R. NAYLOR	14.10.2022			

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SPARK NORTH EAST LINK

MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY

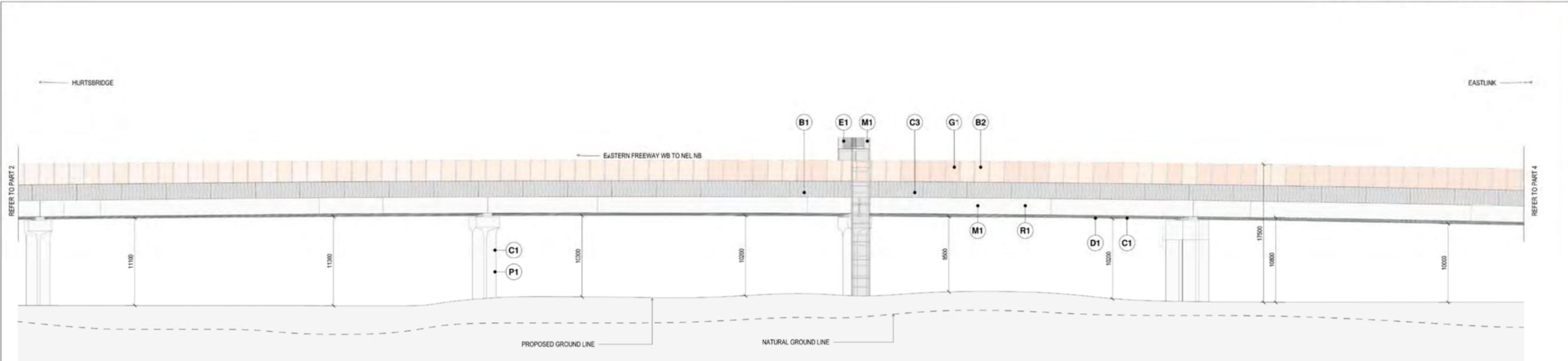
VICTORIA'S BIG BUILD

NORTH EAST LINK PROGRAM

PROJECT CONTRACT: NELP DRAWING No: NEL-CNT-WMI-2990-UUD-DRG-0143

SUIT CODE: 06

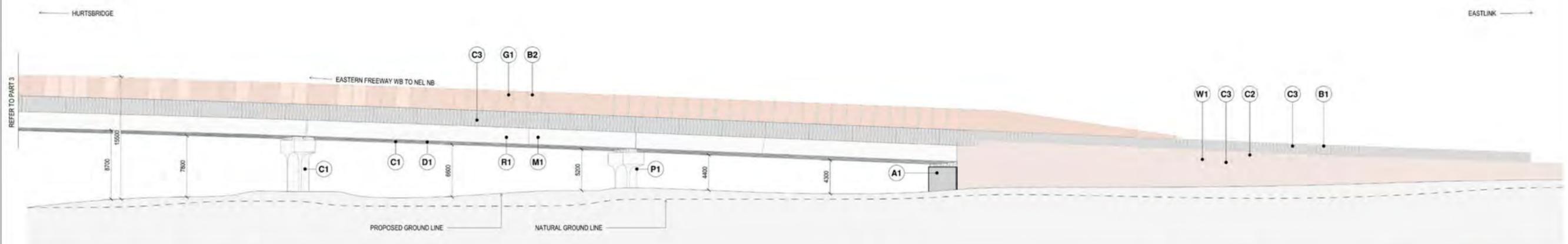
REVISION: 06



BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB - PART 3

SCALE: 1:250

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BRIDGE STRUCTURE - BR 309 - EASTERN FREEWAY WB TO NEL NB - PART 4

SCALE: 1:250

TYPE NOTES

- P1** PIERS
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG: C1
- B1** ROAD BARRIERS
COLOUR: ORANGE CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C2
- B2** MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1
COLOUR: TRC WITH INTEGRAL BLACK POLYMER SBRAGG FOR WHISTEN BIRD PROTECTION
FINISH: 30% TRANSPARENT ACRYLIC PANEL MATERIAL TAG: G1
- B3** ANTI-TWIST MESH BARRIER
COLOUR: DARK GREY STEEL
FINISH: WIRE MESH PROTECTION SCREEN MATERIAL TAG: W1
- B4** RAIL BARRIER
COLOUR: CHARCOAL STEEL
FINISH: GALVANIZED STEEL MATERIAL TAG: M1
- W1** RETAINING WALL - TYPE A
COLOUR: ORANGE CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C2
- W2** FLOOD WALL - TYPE A
COLOUR: ORANGE CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C2
- A1** ABUTMENT
COLOUR: ORANGE CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG: C2
- R1** BRIDGE GIRDERS
COLOUR: LIGHT GREY STEEL PAINT
FINISH: POLYURETHANE PANEL MATERIAL TAG: M1
- D1** BRIDGE DECK
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG: C1
- E1** GAVITIES
COLOUR: DARK GREY STEEL PAINT
FINISH: WIRE MESH MATERIAL TAG: W1

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECULATIVITY CONSULTATIVE ASSESSMENT.
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS
CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECULATIVITY CONSULTATIVE ASSESSMENT.
- M3** METAL SUPPORT STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS
- M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC FINISH TO BE NON-REFLECTIVE, NON-GLOSS
- M5** METAL PANEL - STEEL
PAINTED FINISH - CHARCOAL
FINISH: GALVANIZED STEEL
- S1** WIRE MESH PROTECTION SCREEN
MESH: 30MM APERTURE TO CUSTOM MANUFACTURER (MMP)
FINISH: 30% TRANSPARENT ACRYLIC PANEL
- G1** ACRYLIC PANELS
30% TRANSPARENT PANEL WITH ETCHED FINISH - GRADUAL OPACITY TO TOP OF PANEL
INTEGRAL BLACK POLYMER SBRAGG FOR WHISTEN BIRD PROTECTION
- G2** PHOTOVOLTAIC PANELS
PANEL: EXISTING AND LOCATIONS SUBJECT TO SPECULATIVITY CONSULTATIVE ASSESSMENT
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT COLOUR
COLOUR: ORANGE CONCRETE
FINISH: SMOOTH CONCRETE
- C3** TEXTURED CONCRETE WITH SELECT COLOUR
TEXTURE: 30% DEEP CAST PATTERNS (MMP) OR TRC
FINISH: INTEGRAL BLACK POLYMER SBRAGG FOR WHISTEN BIRD PROTECTION
- T1** "BARBER ELEMENT"
FINISH: WIRE MESH MATERIAL TAG: W1

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

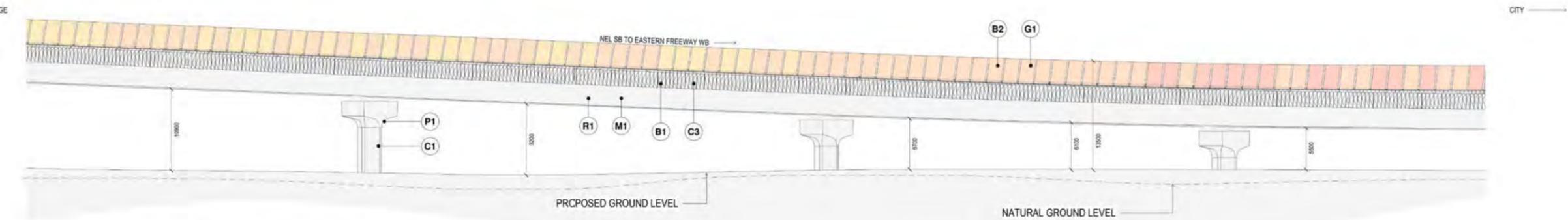
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01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD	14.10.2022						
			APPROVED	R. NAYLOR	14.10.2022						

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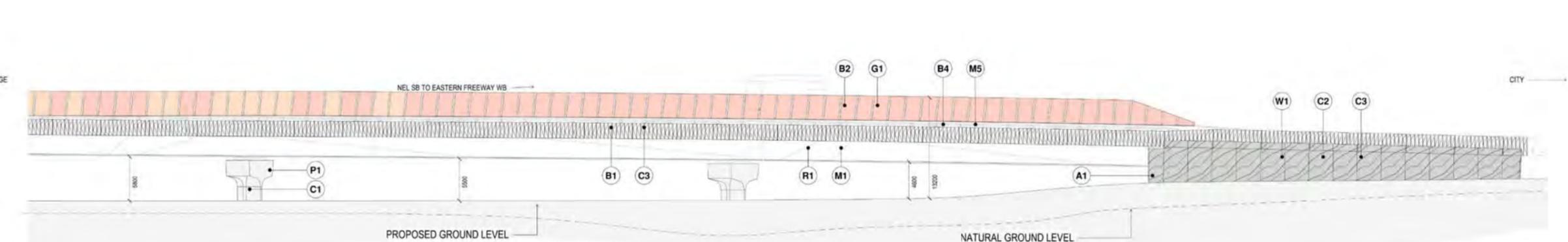
BRIDGE STRUCTURE - BR 303 - NEL SB TO EASTERN FREEWAY WB - ELEVATION PART 3

SCALE: 1:250



BRIDGE STRUCTURE - BR 303 - NEL SB TO EASTERN FREEWAY WB - ELEVATION PART 4

SCALE: 1:250



BRIDGE STRUCTURE - BR 303 - NEL SB TO EASTERN FREEWAY WB - ELEVATION PART 5

SCALE: 1:250



TYPE NOTES

- P1 PIERS: COLOUR: GREY CONCRETE; FINISH: SMOOTH CONCRETE; MATERIAL TAG: C1
- B1 RCAD BARRIERS: COLOUR: GRAY CONCRETE; FINISH: TEXTURED CONCRETE; MATERIAL TAG: C1
- B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1: COLOUR: TRC WITH INTEGRAL BLACK POLYMER SBRAGG FOR WHITER BIRD PROTECTION; FINISH: 30% TRANSPARENT ACrylic PANEL; MATERIAL TAG: G1
- B3 ANTI-THEFT MESH BARRIER: COLOUR: DARK GRAY; FINISH: WIRE MESH PROTECTION SCREEN; MATERIAL TAG: M1
- B4 RAIL BARRIER: COLOUR: CHARCOAL; FINISH: POLISHED STEEL; MATERIAL TAG: M1
- W1 RETAINING WALL - TYPE A: COLOUR: GRAY CONCRETE; FINISH: TEXTURED CONCRETE; MATERIAL TAG: C1
- W2 FLOOD WALL - TYPE A: COLOUR: GRAY CONCRETE; FINISH: TEXTURED CONCRETE; MATERIAL TAG: C1
- A1 ABUTMENT: COLOUR: GRAY CONCRETE; FINISH: TEXTURED CONCRETE; MATERIAL TAG: C1
- R1 BRIDGE GROUT: COLOUR: LIGHT GRAY STEEL PAINT; FINISH: POLISHED STEEL; MATERIAL TAG: M1
- D1 BRIDGE DECK: COLOUR: GRAY CONCRETE; FINISH: SMOOTH CONCRETE; MATERIAL TAG: C1
- E1 GAVITIES: COLOUR: GRAY STEEL PAINT; FINISH: YIELD PANEL; MATERIAL TAG: M1

MATERIALS AND FINISHES

- M1 METAL PANEL WITH SELECTED COLOUR: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE; NON-Glare AND SUBJECT TO SPECIFIC CONSULTANT QUALITY ASSESSMENT
- M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE; NON-Glare; ADJUSTED TO COORDINATE WITH SPECIALIST FEATURE LIGHTING DESIGN
- M3 METAL SUPPORT / STANCHION: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON TRC; FINISH TO BE NON-REFLECTIVE / NON-Glare
- M4 METAL PANEL - PERFORATED: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON TRC; FINISH TO BE NON-REFLECTIVE / NON-Glare
- M5 METAL PANEL - STEEL: PAINTED FINISH - CHARCOAL; FINISH: POLISHED STEEL
- S1 WIRE MESH PROTECTION SCREEN: METAL MESH APPLICABLE TO CUSTOM MANUFACTURED SHAPES; FINISH: 30% TRANSPARENT
- G1 ACRYLIC PANELS: 30% TRANSPARENT PANEL WITH ETCHED FINISH - GRADUAL OPACITY TO TOP OF PANEL; INTEGRAL BLACK POLYMER SBRAGG FOR WHITER BIRD PROTECTION
- G2 PHOTOVOLTAIC PANELS: PANELS EXTERIOR AND LOGGERS SUBJECT TO SPECIFIC QUALITY ASSESSMENT
- C1 SMOOTH CONCRETE FINISH
- C2 SMOOTH CONCRETE FINISH WITH SELECT COLOUR: COLOUR TO MATCH THE METAL COLOUR CODE
- C3 TEXTURED CONCRETE WITH SELECT COLOUR: FINISH TO MATCH THE METAL COLOUR CODE
- T1 "TAPER" ELEMENT: FINISH: POLISHED STEEL; COLOUR: CHARCOAL

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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02	FOR REVIEW	23.06.2022	CHECKED BY	R. WOOD	14.10.2022
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	14.10.2022

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VICTORIA'S BIG BUILD

NORTH EAST LINK PROGRAM

DOT DRAWING No: [] Rev: []

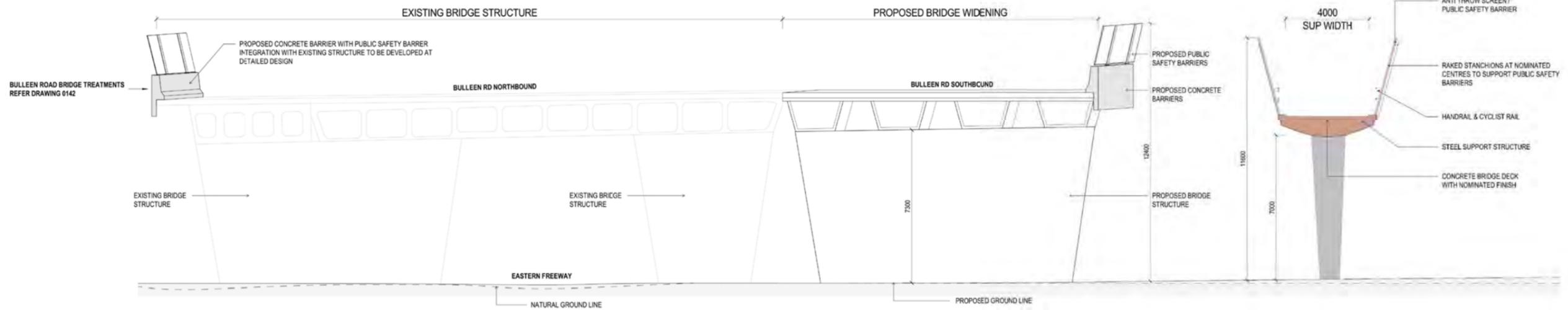
NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE (BR 303) 02

PROJECT CONTRACT: []
NELP DRAWING No: []
NEL-CNT-WMI-2990-UUD-DRG-0146

SUIT. CODE [] REVISION []

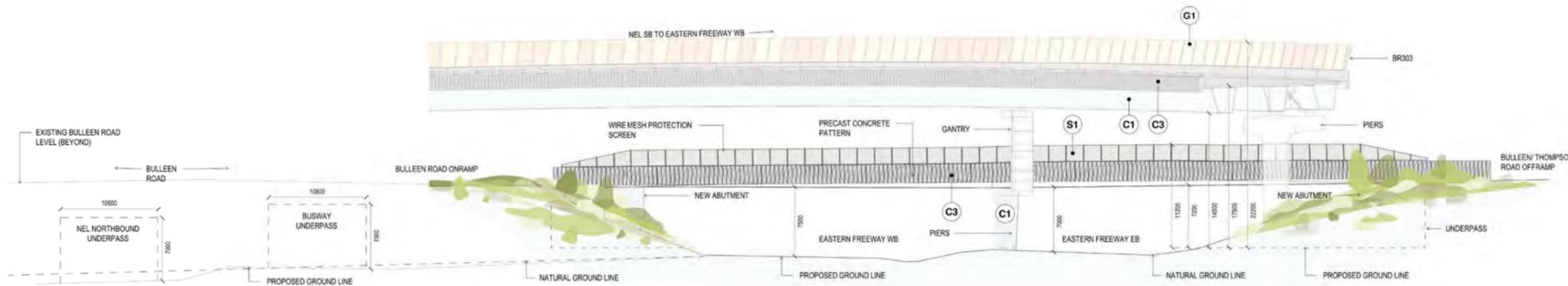
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BR305 BULLEEN EXISTING BRIDGE SECTION H

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BR305 BULLEEN ROAD BRIDGE ELEVATION

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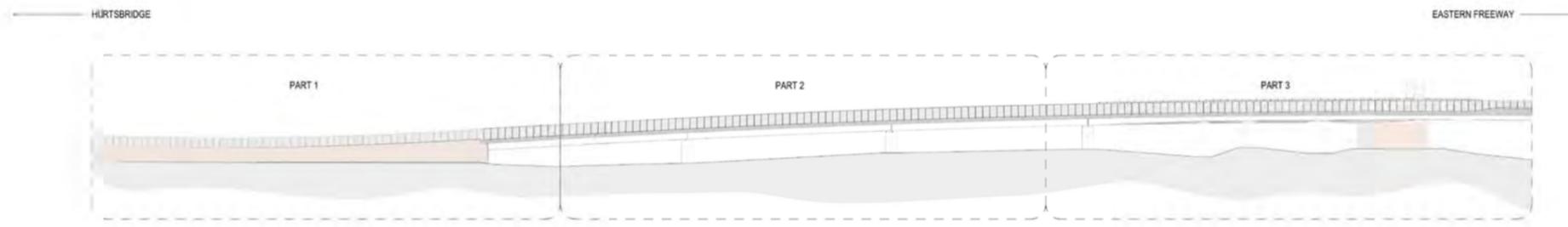
TYPE NOTES		MATERIALS AND FINISHES	
P1 PIERS COLOUR: GREY CONCRETE FINISH: SMOOTH CONCRETE MATERIAL TAG: C1	W2 FLOOD WALL - TYPE A COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1	M1 METAL PANEL WITH SELECTED COLOUR CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIFIC CONSULTANT QUALITY ASSESSMENT	G1 ARTYLIC PANELS SERRATED PANELS WITH ETCHED FINISH (MINIMUM 0.25mm TO TOP OF PANEL). PERSONAL BLACK POLYURETHANE PANELS FOR ANTI-GLARE PROTECTION
B1 ROAD BARRIERS COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1	A1 ABUTMENT COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1	M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED T1 LIGHTS CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO CONSULTANT WITH SPECIALIST FEATURE LIGHTING CONSULTANT	G2 PHOTOVOLTAIC PANELS PANELS EXPOSED AND LOCATIONS SUBJECT TO SPECIFIC SOLAR ASSESSMENT
B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1 COLOUR: TRC WITH INTEGRAL BLACK POLYURETHANE SHEATH FOR WHISTEN BROAD PROTECTION FINISH: 30mm TRANSPARENT ACRYLIC PANEL MATERIAL TAG: C1	R1 BRIDGE GROER COLOUR: LIGHT GREY STEEL PAINT FINISH: POLYURETHANE PANEL IN SELECTED COLOUR MATERIAL TAG: M1	M3 METAL SUPPORT STANCHION PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC FINISH TO BE NON-REFLECTIVE / NON-GLOSS	C1 SMOOTH CONCRETE FINISH
B3 ANTI-THROW MESH BARRIER COLOUR: TRANSPARENT FINISH: WIRE MESH PROTECTION SCREEN MATERIAL TAG: W1	D1 BRIDGE DECK COLOUR: GREY CONCRETE FINISH: SMOOTH CONCRETE MATERIAL TAG: C1	M4 METAL PANEL - PERFORATED PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TRC FINISH TO BE NON-REFLECTIVE / NON-GLOSS	C2 SMOOTH CONCRETE FINISH WITH SELECT COLOUR COLOUR TO MATCH ADJACENT FINISH OR TRC FINISH TO BE NON-REFLECTIVE / NON-GLOSS
B4 RAIL BARRIER COLOUR: CHARCOAL STEEL PAINT FINISH: GALVANNEZED STEEL MATERIAL TAG: M1	E1 GANTRIES COLOUR: GREY STEEL PAINT FINISH: STEEL PANEL ANTI-TRC TAG: M1	M5 METAL PANEL - STEEL PAINTED FINISH - CHARCOAL FINISH: GALVANNEZED STEEL	C3 TEXTURED CONCRETE WITH SELECT COLOUR TEXTURE: 0.25mm DEEP CAST PATTERNS (MINIMUM 0.25mm TRC) TEXTURE: 0.25mm DEEP CAST PATTERNS (MINIMUM 0.25mm TRC)
W1 RETAINING WALL - TYPE A COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1		S1 WIRE MESH PROTECTION SCREEN MESH: 30mm APERTURE TO CUSTOM MANUFACTURER (MESH) FINISH: IS GALVANNEZED STEEL	T1 "TAPER" ELEMENT FINISH: WIRE MESH WITH 1.5mm GALVANNEZED STEEL

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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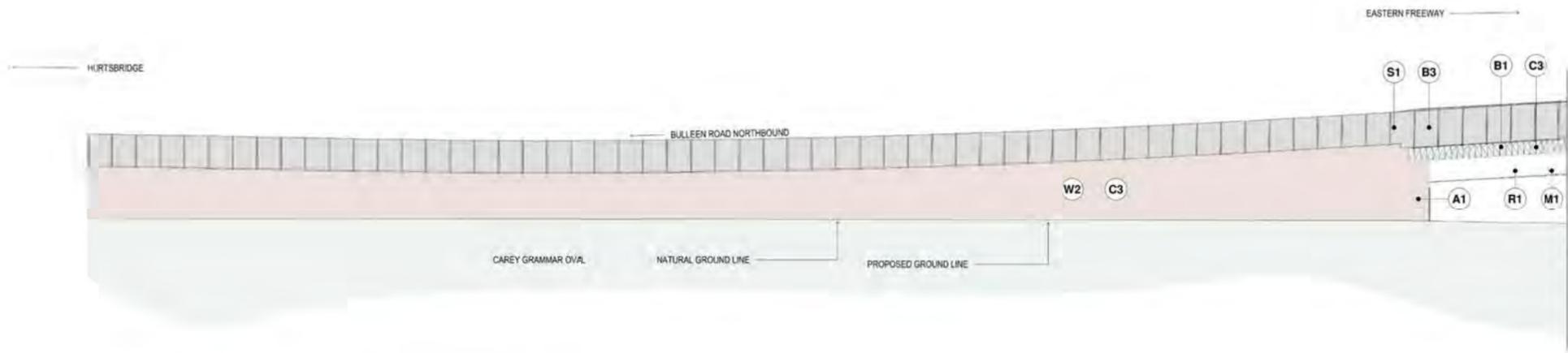
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BRIDGE STRUCTURE - BR301 - WEST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL NB - OVERALL ELEVATION

SCALE: 1:250



BRIDGE STRUCTURE - BR301 - WEST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL NB - PART 1

SCALE: 1:250

TYPE NOTES

- P1** PIERS
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE
- B1** ROAD BARRIERS
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE
- B2** MEDIUM PERFORMANCE BARRIER WITH NOSE WALL - D1
COLOUR: TBC WITH INTERIOR BLACK POLYURETHANE BRUSHED FINISH PROTECTION WITH SEMI-PERMANENT ACRYLIC PANEL MATERIAL TAG 01
- B3** ANTI-THROW MESH BARRIER
COLOUR: SPUNNED STEEL
FINISH: WIRE MESH PROTECTION SCREEN MATERIAL TAG 01
- B4** RAIL BARRIER
COLOUR: SHIMONAL STEEL PAINT
FINISH: GUNNED STEEL, MATERIAL TAG 01
- W1** RETAINING WALL - TYPE A
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG 01 AND 02
- W2** FLOOD WALL - TYPE A
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG 01
- A1** ABUTMENT
COLOUR: GREY CONCRETE
FINISH: TEXTURED CONCRETE MATERIAL TAG 01
- R1** BRIDGE GIRDER
COLOUR: LIGHT GREY STEEL PAINT
FINISH: METAL PANEL IN SELECTED COLOUR MATERIAL TAG 01
- D1** BRIDGE DECK
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG 01
- E1** GANTRIES
COLOUR: DARK GREY STEEL PAINT
FINISH: STEEL PANEL MATERIAL TAG 01

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC FINISH TO BE NON-REFLECTIVE NON-GLARE AND SUITED TO SPECIFIC CLIMATE AND LIGHT ASSESSMENT
- M2** METAL PANEL WITH SELECTED COLOUR / INTERGRATED LED LIGHTS
CUSTOM COLOUR TBC FINISH TO BE NON-REFLECTIVE NON-GLARE ARCHITECTURE ACCORDING TO SPECIFIC FEATURE LIGHTING SCHEME
- M3** METAL SUPPORT / STANCHION
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE NON-GLARE
- M4** METAL PANEL - PERFORATED
PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE NON-GLARE
- M5** METAL PANEL - STEEL
PAINTED FINISH - GUNNED
FINISH: GUNNED STEEL
- S1** WIRE MESH PROTECTION SCREEN
MESH: 100MM APERTURE TO CUSTOM MANUFACTURE FINISH: 18 GUNNED STEEL
- G1** ACRYLIC PANELS
Semi-transparent panels with textured finish - (opacity to be 50% or more) with a black polyurethane brush for weather-protected
- G2** PHOTOVOLTAIC PANELS
PANEL: EXTENT AND LOCATION SUBJECT TO SPECIALIST SOLAR ASSESSMENT
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
COLOUR: DERIVED FROM THE MATERIAL COLOUR CHART
- C3** TEXTURED CONCRETE WITH SELECT OXIDE
TEXTURE: OF GRIND GRIT PATTERNS (OXIDE COLOUR TBC NOW TO BE DETERMINED BY LIGHTING SCHEME)
- T1** TIMBER ELEMENT
TIMBER: HONEYCOMB COMPOSITE (SHEAR) WITH GRANTHAM COLOUR MATCH TO EXISTING

A REFLECTIVITY STUDY WILL BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE FOR THE UDLP DESIGN ELEMENTS AND MATERIALS AND FINISHES WILL BE ADAPTED ACCORDINGLY. COLOURS TO BE DETERMINED IN ALIGNMENT WITH THE MATERIAL COLOUR CHART SUBJECT TO DESIGN DEVELOPMENT ANALYSIS.

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVED	APPROVALS	DRAWN: A.WC	SIZE: A1	SCALE: As indicated
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022	Conditions of Use	
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022	This document has been developed for the purposes of the North East Link Program.	
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03	FOR REVIEW	10.08.2022	ENGINEERING	R. WOOD	14.10.2022	- May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice	
02	FOR REVIEW	23.06.2022	CHECKED BY	R. WOOD	14.10.2022		
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	14.10.2022		

MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY

VICTORIA'S BIG BUILD

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt

GP0 828 458
480 Bourke
VICTORIA 3601
PHONE 182 152 152

DOT DRAWING No: _____

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE (BR 301) WEST 01

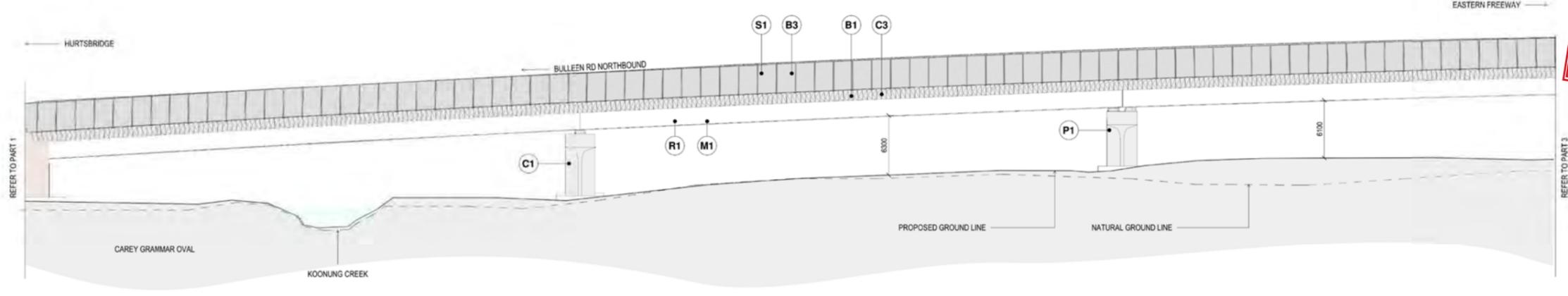
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NELP DRAWING No: _____

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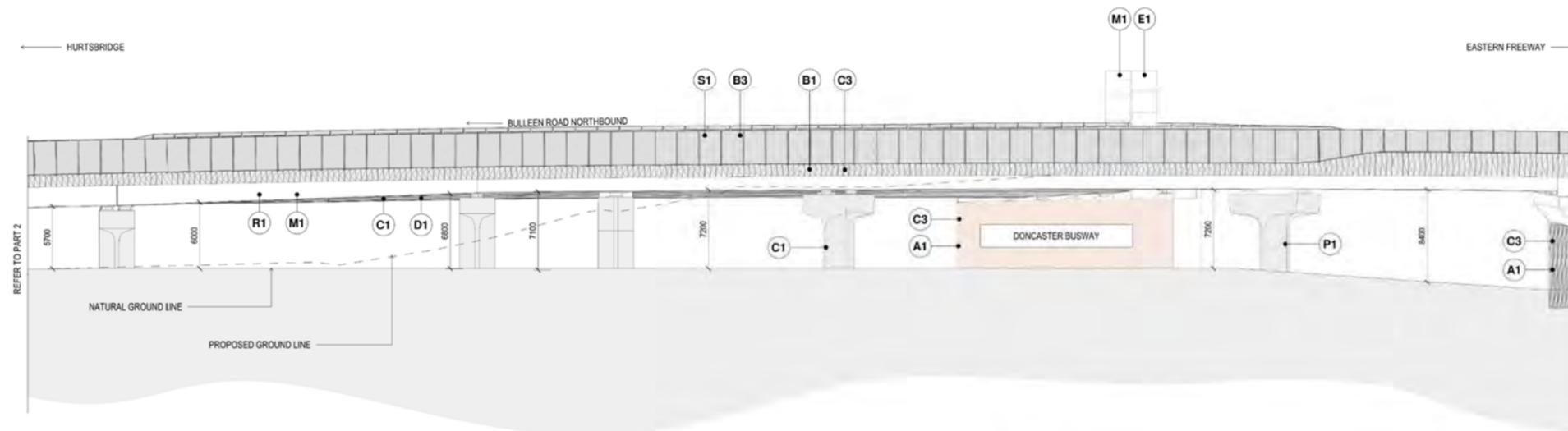
REVISION: **06**

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BRIDGE STRUCTURE - 3R301 - WEST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL NB - PART 2

SCALE: 1:250



BRIDGE STRUCTURE - 3R301 - WEST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL NB - PART 3

SCALE: 1:250

TYPE NOTES

- P1** PIERS
COLOUR GREY CONCRETE
FINISH SMOOTH CONCRETE, MATERIAL TAG C1
- B1** ROAD BARRIERS
COLOUR GREY CONCRETE
FINISH TEXTURED CONCRETE, MATERIAL TAG C1
- B2** MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1
COLOUR TBC, WITH INTEGRAL BLACK POLYMER FIBRES FOR WHISTEN AND PROTECTION
FINISH SEMI-TRANSPARENT ACRYLIC PANEL, MATERIAL TAG D1
- B3** ANTI-THROW MESH BARRIER
COLOUR BRANDED STEEL
FINISH WIRE MESH PROTECTION SCREEN, MATERIAL TAG M5
- B4** RAIL BARRIER
COLOUR CHARCOAL STEEL FINISH
FINISH GALVANIZED STEEL, MATERIAL TAG M1
- W1** RETAINING WALL - TYPE A
COLOUR GREY CONCRETE
FINISH TEXTURED CONCRETE, MATERIAL TAG C1 AND C2
- W2** FLOOD WALL - TYPE A
COLOUR GREY CONCRETE
FINISH TEXTURED CONCRETE, MATERIAL TAG C1
- A1** ABUTMENT
COLOUR GREY CONCRETE
FINISH TEXTURED CONCRETE, MATERIAL TAG C1
- R1** BRIDGE GRIDER
COLOUR LIGHT GREY STEEL FINISH
FINISH METAL PANEL, IN SELECTED COLOUR, MATERIAL TAG M1
- D1** BRIDGE DECK
COLOUR GREY CONCRETE
FINISH SMOOTH CONCRETE, MATERIAL TAG C1
- E1** GANTRIES
COLOUR GREY CONCRETE
FINISH STEEL PANEL, MATERIAL TAG M1

MATERIALS AND FINISHES

- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE AND SUITABLE TO SPECIFIC LIGHTING AND CLIMATE ADJUSTMENT
- M2** METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED LIGHTS
CUSTOM COLOUR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE AND SUITABLE TO SPECIFIC LIGHTING AND CLIMATE ADJUSTMENT
- M3** METAL SUPPORT / STANCHION
FINISH COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE
- M4** METAL PANEL - PERFORATED
FINISH COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE
- M5** METAL PANEL - STEEL
FINISH COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE
- S1** WIRE MESH PROTECTION SCREEN
FINISH 20MM APERTURE TO CUSTOM MANUFACTURED BARRIER FINISH TO BE BRANDED STEEL

ACRYLIC PANELS

- G1** JOINT TRANSPARENT PANEL WITH POLYURETHANE ADHESIVE TO TOP OF PANEL, INTERNAL BLACK POLYURETHANE THREADS FOR WHISTEN AND PROTECTION
- G2** PHOTOVOLTAIC PANELS
FINISH COLOUR TO MATCH ADJACENT FINISH OR TBC FINISH TO BE NON-REFLECTIVE, NON-GLARE
- C1** SMOOTH CONCRETE FINISH
- C2** SMOOTH CONCRETE FINISH WITH SELECT COLOUR
- C3** TEXTURED CONCRETE WITH SELECT COLOUR
FINISH TO BE NON-REFLECTIVE, NON-GLARE
- T1** TIMBER ELEMENT
FINISH TO BE BRANDED STEEL

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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			APPROVED	R. NAYLOR	14.10.2022		

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NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE (BR 301) WEST 02

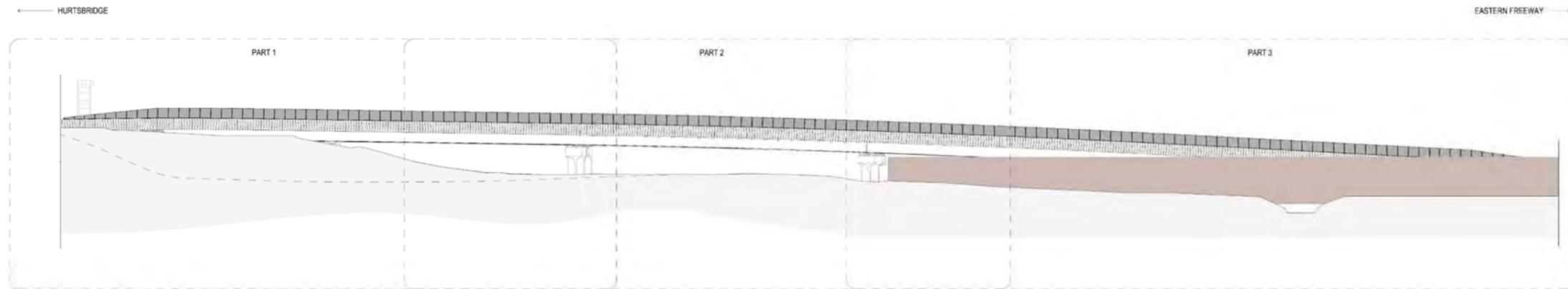
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NELP DRAWING No: [] SUIT. CODE [] REVISION []

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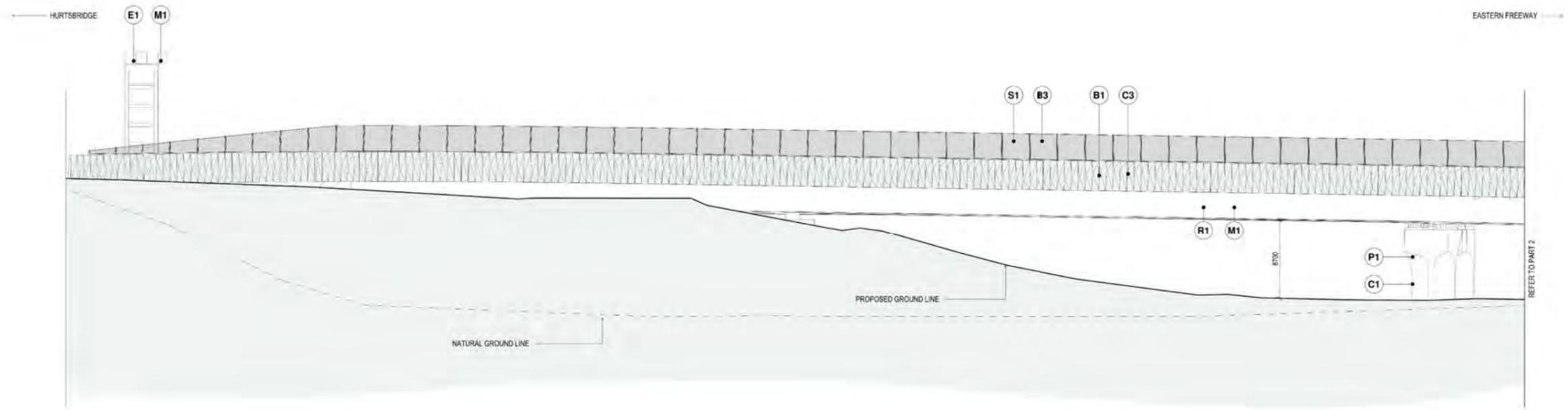
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BRIDGE STRUCTURE - BR301 - EAST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL SB - OVERALL ELEVATION

SCALE: 1:250



BRIDGE STRUCTURE - BR301 - EAST - BULLEEN RD OVER EASTERN FREEWAY EB TO NEL SB - PART 1

SCALE: 1:250

TYPE NOTES

- P1 PIERS: COLOUR GREY CONCRETE; FINISH SMOOTH CONCRETE; MATERIAL TAG C1
- B1 RCAD BARRIERS: COLOUR GREY CONCRETE; FINISH TEXTURED CONCRETE; MATERIAL TAG C2
- B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1: COLOUR TRC WITH INTEGRAL BLACK POLYURETHANE SHEATH FOR WHISTEN BIRD PROTECTION; FINISH 30MM TRANSPARENT ACRYLIC PANEL; MATERIAL TAG D1
- B3 ANTI-TWILLOW MESH BARRIER: COLOUR DARK GREY STEEL; FINISH WIRE MESH PROTECTION SCREEN; MATERIAL TAG M1
- B4 RAIL BARRIER: COLOUR DARK GREY STEEL; FINISH GALVANIZED STEEL; MATERIAL TAG M1
- W1 RETAINING WALL - TYPE A: COLOUR GREY CONCRETE; FINISH TEXTURED CONCRETE; MATERIAL TAG C2
- W2 FLOOD WALL - TYPE A: COLOUR GREY CONCRETE; FINISH TEXTURED CONCRETE; MATERIAL TAG C2
- A1 ABUTMENT: COLOUR GREY CONCRETE; FINISH TEXTURED CONCRETE; MATERIAL TAG C2
- R1 BRIDGE GIRDER: COLOUR LIGHT GREY STEEL; FINISH PAINTED STEEL; MATERIAL TAG M1
- D1 BRIDGE DECK: COLOUR GREY CONCRETE; FINISH SMOOTH CONCRETE; MATERIAL TAG C1
- E1 GAVTTRES: COLOUR DARK GREY STEEL; FINISH TRUSS PANEL; MATERIAL TAG M1

MATERIALS AND FINISHES

- M1 METAL PANEL WITH SELECTED COLOUR: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE; NON-Glare AND SUBJECT TO SPECULITY CONSULTANT QUALITY ASSESSMENT
- M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED T1 LIGHTS: CUSTOM COLOUR TRC FINISH TO BE NON-REFLECTIVE; NON-Glare; ADJUSTED TO COORDINATE WITH SPECIALIST FEATURE LIGHTING CONSULTANT
- M3 METAL SUPPORT STANCHION: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON TRC; FINISH TO BE NON-REFLECTIVE; NON-Glare
- M4 METAL PANEL - PERFORATED: PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON TRC; FINISH TO BE NON-REFLECTIVE; NON-Glare
- M5 METAL PANEL - STEEL: PAINTED FINISH - CHARCOAL; FINISH GALVANIZED STEEL
- S1 WIRE MESH PROTECTION SCREEN: MESH 20MM APERTURE TO CUSTOM MANUFACTURER (MMP); FINISH IS GALVANIZED STEEL
- G1 PHOTOVOLTAIC PANELS: 40% TYPICAL PANELS WITH ETCHED FINISH - (MINIMUM OPACITY TO TOP OF PANEL); PERSONAL BLACK POLYURETHANE FINISH FOR ANTI-TWILLOW PROTECTION
- G2 PHOTOVOLTAIC PANELS: PANELS EXTERIOR AND LOGGERS SUBJECT TO SPECULITY CONSULTANT ASSESSMENT
- C1 SMOOTH CONCRETE FINISH
- C2 SMOOTH CONCRETE FINISH WITH SELECT COLOUR: COLOUR TO MATCH THE METAL PANEL COLOUR CODE
- C3 TEXTURED CONCRETE WITH SELECT COLOUR: FINISH TO MATCH THE METAL PANEL COLOUR CODE
- T1 "TAPER" ELEMENT: FINISH TO MATCH THE METAL PANEL COLOUR CODE

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. NAYLOR	14.10.2022		

MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY

VICTORIA'S BIG BUILD

GPD 8028 4508
480 MELBOURNE
VICTORIA 3001
PHONE 180 100 100

DOT DRAWING No: _____

Rev: _____

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
UDLP SOUTHERN INTERFACE (BR 301) EAST 01

PROJECT CONTRACT: _____

CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt

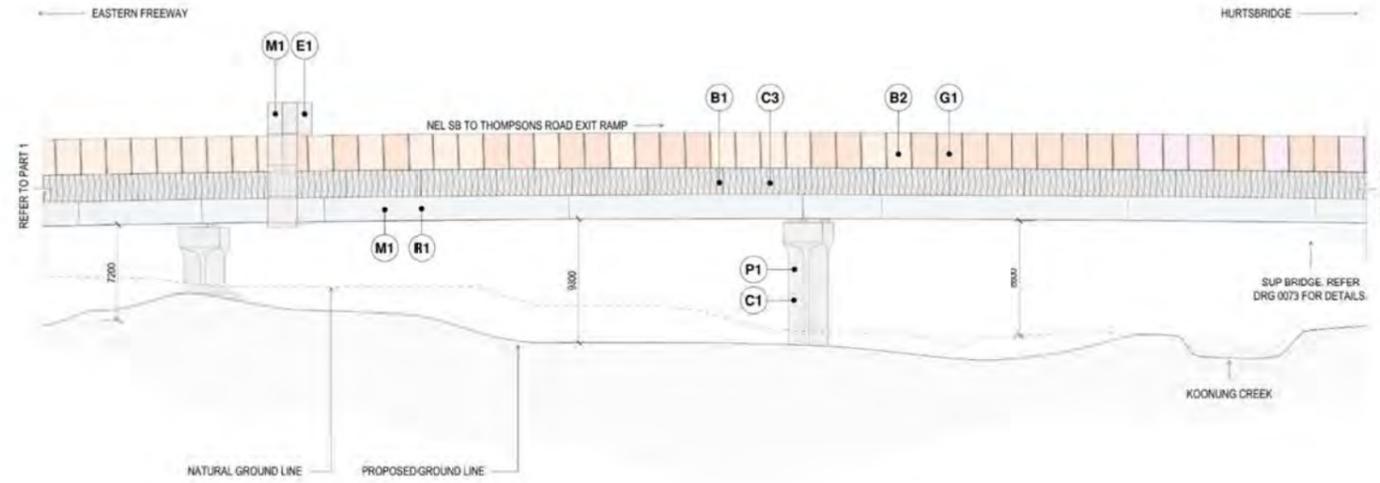
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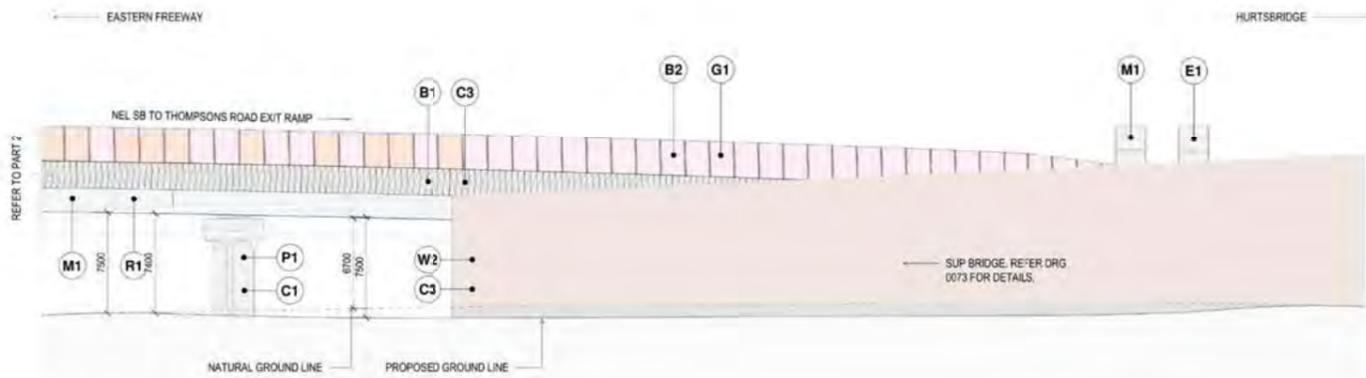
SUIT. CODE: _____

REVISION: 06

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BRIDGE STRUCTURE - BR 319 - NEL SB TO THOMPSONS ROAD EXIT RAMP - PART 2
SCALE: 1:250



BRIDGE STRUCTURE - BR 319 - NEL SB TO THOMPSONS ROAD EXIT RAMP - PART 2
SCALE: 1:250

- TYPE NOTES**
- P1** PIERS
COLOUR: GREY CONCRETE
FINISH: SMOOTH CONCRETE MATERIAL TAG C1
 - B1** ROAD BARRIERS
COLOUR: ORANGE COLOUR TAG
FINISH: POLYURETHANE COATING MATERIAL TAG C2
 - B2** MEDIUM PERFORMANCE BARRIER WITH NOSE WALL - D1
COLOUR: TBC WITH OPTIONAL BLACK POLYURETHANE FINISH FOR ENHANCED PROTECTION
FINISH: 50MM THICK POLYURETHANE ACRYLIC PANEL MATERIAL TAG C1
 - B3** ANTI-THROW MESH BARRIER
COLOUR: STAINLESS STEEL
FINISH: WIRE MESH PROTECTION SCREEN MATERIAL TAG M5
 - B4** RAIL BARRIER
COLOUR: CHROME PLATED STEEL
FINISH: GALVANIZED STEEL MATERIAL TAG M1
 - W1** RETAINING WALL - TYPE A
COLOUR: ORANGE COLOUR TAG
FINISH: TEXTURED CONCRETE MATERIAL TAG C2
 - W2** FLOOD WALL - TYPE A
COLOUR: ORANGE COLOUR TAG
FINISH: TEXTURED CONCRETE MATERIAL TAG C2
 - A1** ABUTMENT
COLOUR: ORANGE COLOUR TAG
FINISH: POLYURETHANE COATING MATERIAL TAG C2
 - R1** BRIDGE GIRDER
COLOUR: LIGHT GREY STEEL FINISH
FINISH: METAL PANEL SELECTED COLOUR MATERIAL TAG C1
 - D1** BRIDGE DECK
COLOUR: GREY CONCRETE MATERIAL TAG C1
 - E1** GANTRIES
COLOUR: DARK GREY STEEL FINISH
FINISH: POLYURETHANE COATING MATERIAL TAG M1

- MATERIALS AND FINISHES**
- M1** METAL PANEL WITH SELECTED COLOUR
CUSTOM COLOUR TAG FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - M2** METAL PANEL WITH SELECTED COLOUR / INTERSTITIAL 6-D1 WHITE
CUSTOM COLOUR TAG FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - M3** METAL SUPPORT / STANCHION
FINISH: POLYURETHANE COATING FINISH ON THE FINISH TO BE NON-REFLECTIVE, NON-GLOSS
 - M4** METAL PANEL - PERFORATED
FINISH: POLYURETHANE COATING FINISH ON THE FINISH TO BE NON-REFLECTIVE, NON-GLOSS
 - M5** METAL PANEL - STEEL
FINISH: POLYURETHANE COATING FINISH ON THE FINISH TO BE NON-REFLECTIVE, NON-GLOSS
 - S1** WIRE MESH PROTECTION SCREEN
FINISH: WIRE MESH PROTECTION SCREEN
 - G1** ACRYLIC PANELS
FINISH: FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - G2** PHOTOVOLTAIC PANELS
FINISH: FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - C1** SMOOTH CONCRETE FINISH
 - C2** SMOOTH CONCRETE FINISH WITH SELECT OXIDE
FINISH: FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - C3** TEXTURED CONCRETE WITH SELECT OXIDE
FINISH: FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS
 - T1** TAPER ELEMENT
FINISH: FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO PROSTATE CONSULTATION REQUIREMENTS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

REV	DESCRIPTION	DATE	APPROVALS	APPROVED	DATE	VERIFIED BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE
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01	PUBLIC EXHIBITION	02.05.2022		R. NAYLOR	14.10.2022						

DOT DRAWING No: _____ Rev: _____

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
LDLP SOUTHERN INTERFACE (BR 319) 02

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt

PROJECT CONTRACT: _____

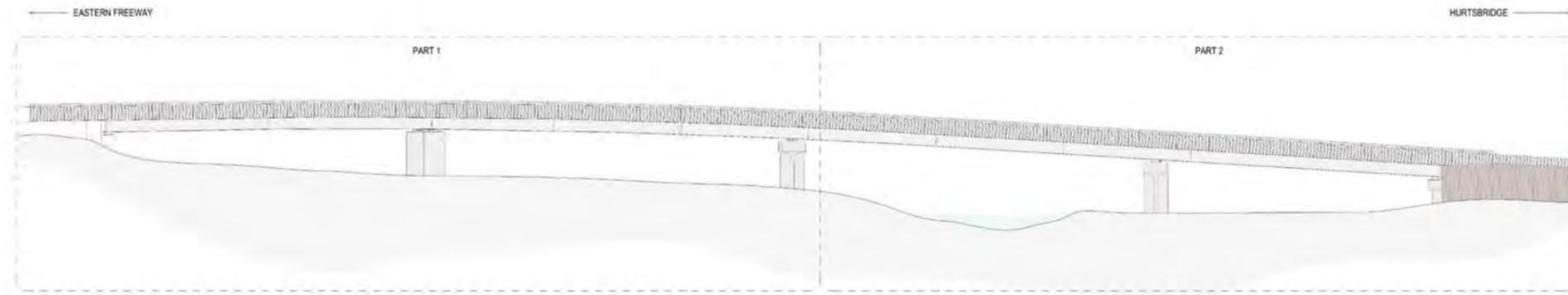
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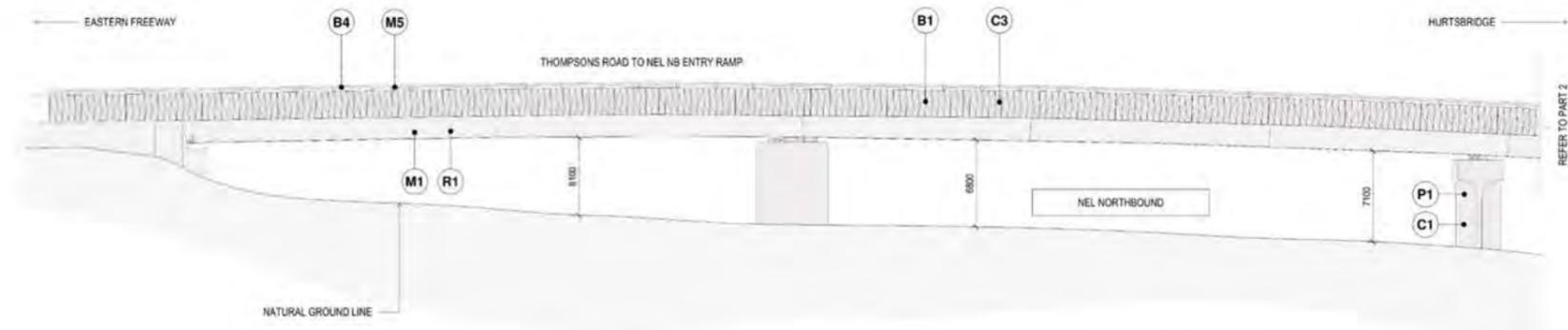
REVISION: **06**

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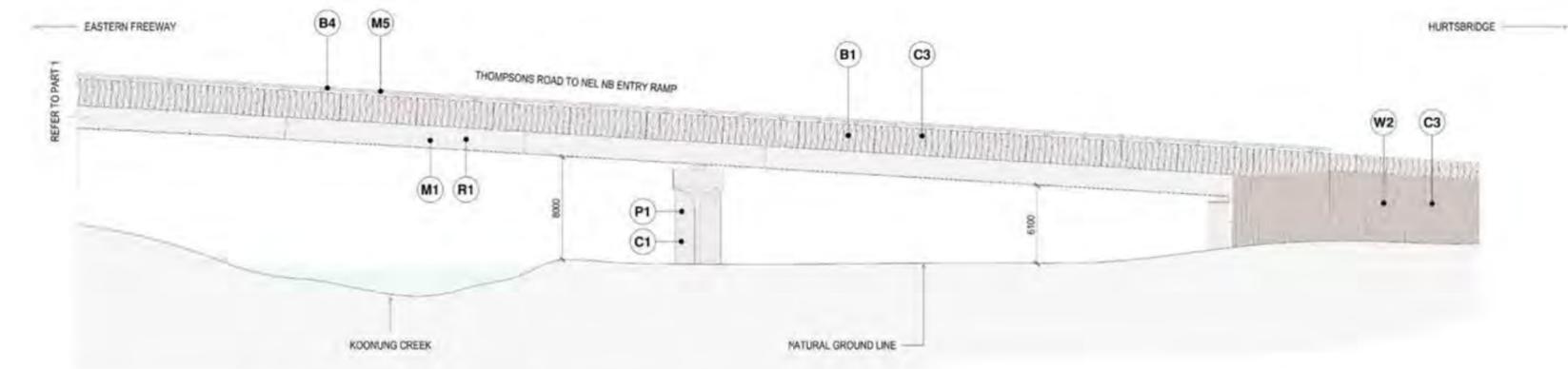
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BRIDGE STRUCTURE - BR 320 - THOMPSONS ROAD TO NEL NB ENTRY RAMP - OVERALL ELEVATION
SCALE: 1:250



BRIDGE STRUCTURE - BR 320 - THOMPSONS ROAD TO NEL NB ENTRY RAMP - PART 1
SCALE: 1:250



BRIDGE STRUCTURE - BR 320 - THOMPSONS ROAD TO NEL NB ENTRY RAMP - PART 2
SCALE: 1:250

TYPE NOTES

P1 PIERS COLOUR: GREY CONCRETE FINISH: SMOOTH CONCRETE MATERIAL TAG: C1	W2 FLOOD WALL - TYPE A COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1
B1 ROAD BARRIERS COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1	A1 ABUTMENT COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1
B2 MEDIUM PERFORMANCE BARRIER WITH NOISE WALL - D1 COLOUR: RUC WITH INTEGRAL BLACK POLYURETHANE SHEATH FOR SHATTER PROTECTION FINISH: 30% TRANSPARENT ACRYLIC PAINT MATERIAL TAG: M1	R1 BRIDGE GIRDERS COLOUR: LIGHT GREY STEEL PAINT FINISH: POLYURETHANE PAINT MATERIAL TAG: M1
B3 ANTI-TROWEL MESH BARRIER COLOUR: DARK GREY CONCRETE FINISH: WIRE MESH PROTECTION SCREEN MATERIAL TAG: M1	D1 BRIDGE DECK COLOUR: GREY CONCRETE FINISH: SMOOTH CONCRETE MATERIAL TAG: C1
B4 RAIL BARRIER COLOUR: CHARCOAL STEEL PAINT FINISH: GALVANIZED STEEL MATERIAL TAG: M1	E1 GANTRIES COLOUR: DARK GREY STEEL PAINT FINISH: STEEL PAINT MATERIAL TAG: M1
W1 RETAINING WALL - TYPE A COLOUR: GREY CONCRETE FINISH: TEXTURED CONCRETE MATERIAL TAG: C1	

MATERIALS AND FINISHES

M1 METAL PANEL WITH SELECTED COLOUR CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIFIC CONSULTANT QUALITY ASSESSMENT	G1 PHOTOVA TAC PANELS 30% TRANSPARENT PANELS WITH ETCHED FINISH (MINIMUM OPACITY TO TOP OF PANEL) PERSONAL BLACK POLYURETHANE FINISH FOR ANTI-GLARE PROTECTION
M2 METAL PANEL WITH SELECTED COLOUR / INTEGRATED LED T1 LIGHTS CUSTOM COLOUR FINISH TO BE NON-REFLECTIVE, NON-GLOSS AND SUBJECT TO SPECIFIC CONSULTANT QUALITY ASSESSMENT	G2 PHOTOVA TAC PANELS PANELS EXTERIOR AND INTERIOR SURFACE SUBJECT TO SPECIFIC CONSULTANT QUALITY ASSESSMENT
M3 METAL SUPPORT STANCHION PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON THE FINISH TO BE NON-REFLECTIVE / NON-GLOSS	C1 SMOOTH CONCRETE FINISH
M4 METAL PANEL - PERFORATED PAINTED FINISH - COLOUR TO MATCH ADJACENT FINISH ON THE FINISH TO BE NON-REFLECTIVE / NON-GLOSS	C2 SMOOTH CONCRETE FINISH WITH SELECT COLOUR COLOUR TO MATCH ADJACENT FINISH ON THE FINISH TO BE NON-REFLECTIVE / NON-GLOSS
M5 METAL PANEL - STEEL PAINTED FINISH - CHARCOAL FINISH: GALVANIZED STEEL	C3 TEXTURED CONCRETE WITH SELECT COLOUR TEXTURE: 0.5mm DEEP CAST PATTERNS (BASED ON OUR TRC MIXTURE) FINISH: ANTI-GLARE PROTECTION
S1 WIRE MESH PROTECTION SCREEN WIRE: 3mm APERTURE TO CUSTOM MANUFACTURER (MESHES FINISH IS STANDARDISED)	T1 "BARBER" ELEMENT FINISH: BRUSHED STEEL 1.5mm FINISH TO BE NON-REFLECTIVE / NON-GLOSS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY
VICTORIA'S BIG BUILD

PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2991-UUD-DRG-0154

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 1 - ARCHITECTURE AND URBAN DESIGN
LDLP SOUTHERN INTERFACE (BR 320) 01

Protective Marking: **OFFICIAL: Sensitive**

CAD FILE: NEL-CNT-WMI-2990-UUD-DRG-0130.rvt

SUIT. CODE: 06

REVISION: 06

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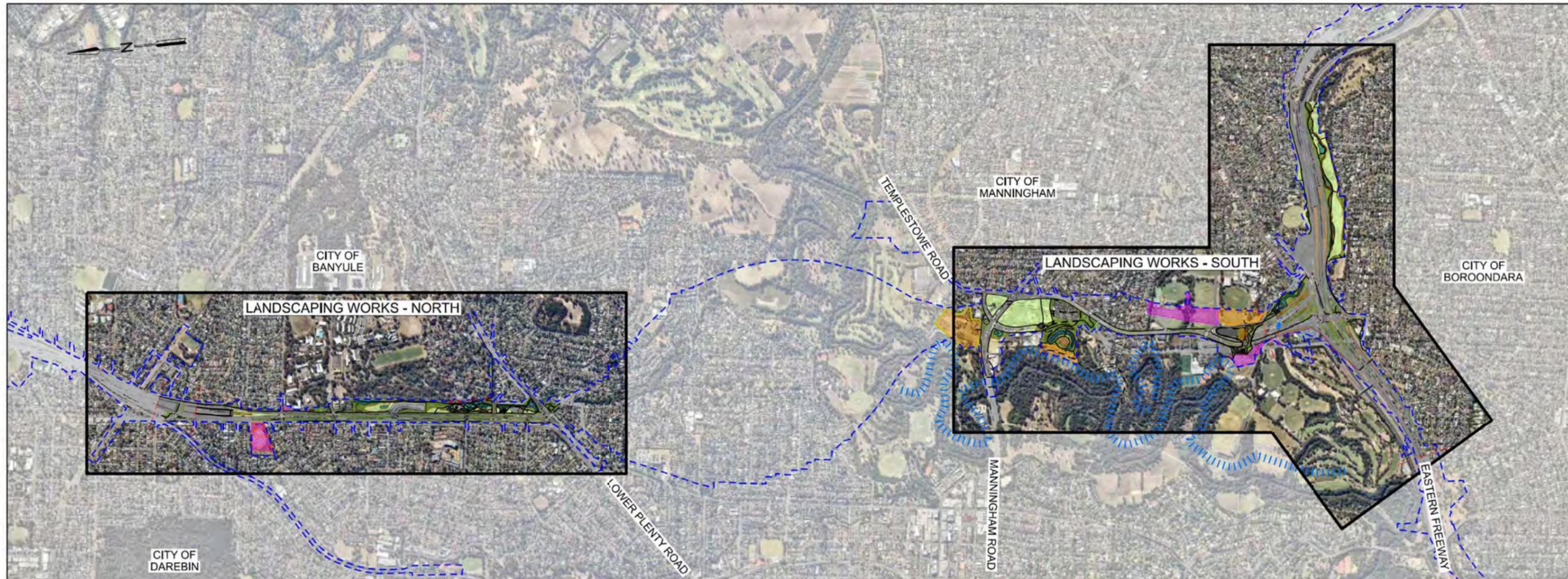


**NORTH
EAST LINK**
PROGRAM

Attachment 2: Landscape Design

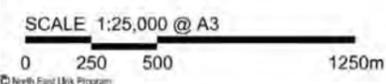
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LEGEND
 - - - - - PROJECT BOUNDARY

KEY PLAN
 1:25,000



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<table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED BY</th> <th>APPROVALS</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td></td> <td></td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td></td> <td></td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td></td> <td></td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td></td> <td></td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> <td></td> </tr> </table>		REV.	DESCRIPTION	DATE	APPROVED BY	APPROVALS	06	FOR REVIEW	14.10.2022			05	FOR REVIEW	12.10.2022			04	FOR REVIEW	01.09.2022			03	FOR REVIEW	10.08.2022			02	FOR REVIEW	23.06.2022			01	PUBLIC EXHIBITION	02.05.2022			<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>CHECKED BY: S.BANSEMER</td> <td>14.10.2022</td> </tr> <tr> <td>DESIGNED BY: B.L'ESTRANGE</td> <td>14.10.2022</td> </tr> <tr> <td>ENGINEERING CHECKED BY: W.DODGIN</td> <td>14.10.2022</td> </tr> <tr> <td>VERIFIED BY: D.LIM</td> <td>14.10.2022</td> </tr> <tr> <td>APPROVED BY: R.NAYLOR</td> <td>17.10.2022</td> </tr> </table>	NAME	DATE	CHECKED BY: S.BANSEMER	14.10.2022	DESIGNED BY: B.L'ESTRANGE	14.10.2022	ENGINEERING CHECKED BY: W.DODGIN	14.10.2022	VERIFIED BY: D.LIM	14.10.2022	APPROVED BY: R.NAYLOR	17.10.2022	<p>Conditions Of Use This Document has been developed for the purposes of the North East Link Program. Residents of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice</p>		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN KEY PLAN</p>	<p>DOT DRAWING No. : REV. :</p>
REV.	DESCRIPTION	DATE	APPROVED BY	APPROVALS																																																	
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<p>PROJECT CONTRACT.:</p>		<p>NEL DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0002</p>	<p>SUIT. CODE 06</p>	<p>REVISION 06</p>																																																	

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Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

GENERAL NOTES

1. ALL UNITS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL COORDINATES ARE EXPRESSED IN METRES TO MGA Z55 (MAP GRID AUSTRALIA - ZONE 55), LEVELS ARE TO AHD (AUSTRALIAN HEIGHT DATUM).
3. ALL INFORMATION IS BASED ON THE LATEST ENGINEERING DESIGN AND FEATURE SURVEY RECEIVED.
4. THE LOCATION OF SERVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE NOT BASED UPON COMPLETE INVESTIGATION, THEIR EXACT LOCATION SHOULD BE PROVEN ON SITE.
5. WORK AREA TO BE MADE GOOD - ALL DISTURBED AREAS DURING CONSTRUCTION TO BE TOPSOILED, LEVELLED TO ORIGINAL CONDITION AND GRASSED UNLESS OTHERWISE NOTED. GRASS SPECIES TO MATCH HYDROSEED LAWN MIX.
6. FOR GARDEN BED G2A, GDB, G2C, GBD, GBE, GBF, G2G AND GBH PLEASE SEE THE MASTER PLANT SCHEDULE FOR THE COMPOSITION OF SPECIES IN THIS PLANTING BED WITHIN THE RESPECTIVE ECOLOGICAL VEGETATION (EVC) AREA.

MASTER LEGEND

GENERAL

- PROJECT BOUNDARY
- NOISE WALL
REFER ATTACHMENT 1 - URBAN DESIGN & ARCHITECTURE
- FLOOD WALL
REFER ATTACHMENT 1 - URBAN DESIGN & ARCHITECTURE
- TEMPORARY WORKS ZONE
- NO GO ZONE

SOFT SURFACE TREATMENT

- INDICATIVE FUTURE TREE CANOPY
- G1A - HYDROSEED LAWN
- G2A - GARDEN BED - TYPE 01 WETLAND
GARDEN BED PLANTING WITH INORGANIC MULCH.

SOFT SURFACE TREATMENT (CONTINUED)

- G2B - GARDEN BED - TYPE 02 WATERWAY RESTORATION
KOONUNG CREEK HABITAT
GARDEN BED PLANTING WITH INORGANIC MULCH.
- G2B - GARDEN BED - TYPE 02 WATERWAY RESTORATION
BANYULE CREEK HABITAT
GARDEN BED PLANTING WITH INORGANIC MULCH.
- G2C - GARDEN BED - TYPE 03 HABITAT CORRIDOR
GARDEN BED PLANTING WITH ORGANIC MULCH.
- G2D - GARDEN BED - TYPE 04 ROADWAY PLANTING
GARDEN BED PLANTING WITH ORGANIC MULCH.
- G2E - GARDEN BED - TYPE 05 MASSED GROUNDCOVERS
GARDEN BED PLANTING WITH ORGANIC MULCH.
- G2F - GARDEN BED - TYPE 07 GREENROOF / PODIUM / LANDBRIDGE
GARDEN BED PLANTING WITH ORGANIC MULCH.
- G2G - GARDEN BED - TYPE 08 BIORETENTION
GARDEN BED PLANTING WITH FILTRATION MEDIA.
- SF1 - SOFTFALL MULCH

HARD SURFACE TREATMENT

- SHARED USE PATH
MINIMUM 3m WIDTH
200mm THK REINFORCED CONCRETE.
- PV1 - STANDARD GREY CONCRETE
200mm THK REINFORCED CONCRETE.
- PV2 - EXPOSED AGGREGATE CONCRETE
200mm THK REINFORCED CONCRETE.
- PV3A - GRANITIC GRAVEL
- PV3B - GRANITIC GRAVEL
- PV4 - GRANITE PAVING
600 x 600mm 60mm THK.
- PV5A - SOFTFALL PINK
- PV5B - SOFTFALL BEIGE

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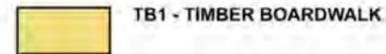
 Landscape Architects Urban Designers Town Planners	 VICTORIA'S BIG BUILD	 GRO BOX 4584 MELBOURNE VICTORIA 3001 PHONE 1800 100 100	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN MASTER LEGEND SHEET 01	DOT DRAWING No. : REV. :
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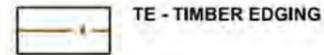
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MASTER LEGEND

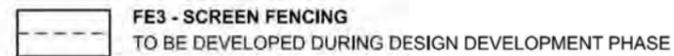
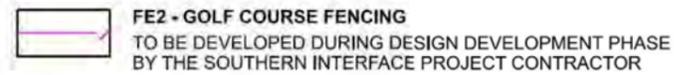
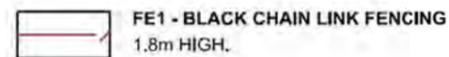
BOARDWALKS AND STRUCTURES



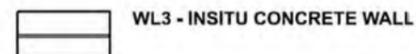
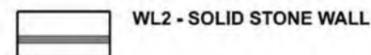
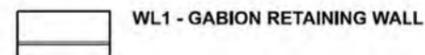
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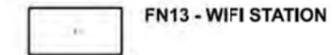
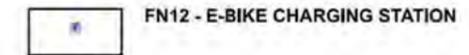
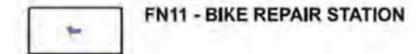
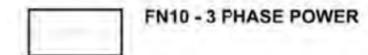
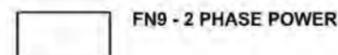
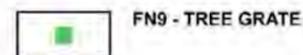
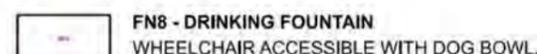
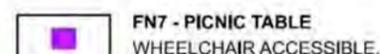
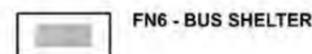
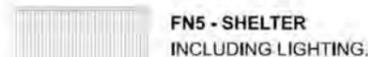
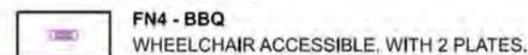
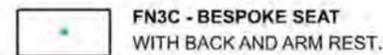
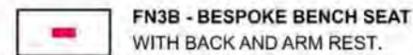
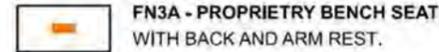
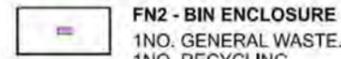
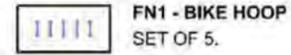


WALLS

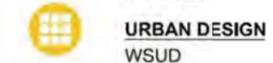


TYPICAL LANDSCAPE RETAINING WALLS

FURNITURE



DESIGN DISCIPLINE AREAS



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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY	S.BANSEMER	14.10.2022	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN MASTER LEGEND SHEET 02			
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Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
Ridgeline (EVC 47 Valley Grassy Forest)	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	paradoxa	Prickly wattle	2-4 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	implexa	Lightwood or Hickory wattle	6-9m x 5-8m	1 per 6m2	Tubes - 45L1
	Tree	Eucalyptus	polyanthemos	Red box	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	meliodora	Yellow box	15-30 x 15m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	radialis	Narrow leaved peppermint gum	10-40 x 6-20m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	rubida	Candlebark	10-35 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
Borlase Reserve Trees (EVC 22 Grassy Dry Forest)	Tree	Acacia	paradoxa	Prickly wattle	2-4 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	macrotylncha	Red Stringybark	10-22 x 7-10m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	obliqua	Stringybark messmate	15-25 x 7-10m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	polyanthemos	Red box	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Exocarpos	cupressiformis	Cherry ballart	3-10 x 3-6 m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	implexa	Lightwood	6-8 x 4-6m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	meamsii	Black Wattle	10-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
Borlase Reserve Trees (EVC 55 Plains Grassy Woodland)	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	meliodora	Yellow box	15-30 x 15m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 3m2	Tubes - 45L1
	Tree	Exocarpos	cupressiformis	Cherry ballart	3-10 x 3-6 m	1 per 6m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
Banyley Creek Restoration (EVC 68 Creeklake Grassy Woodland)	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	provincialis	Wrida	6-8 x 3-5m	1 per 3m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Melaleuca	ericifolia	Swamp paperbark	7-12 x 5-7m	1 per 6m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	implexa	Lightwood	6-8 x 4-6m	1 per 6m2	Tubes - 45L1
Banyley Golden Wattle - Burgan (EVC 82 Rivine Escarpment Scrub)	Tree	Acacia	meamsii	Black Wattle	10-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Kunzea	ericoides	Forest Burgan	2-5 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
Banyley Burgan - Sweet Bursaria (EVC 82 Rivine Escarpment Scrub)	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Kunzea	ericoides	Forest Burgan	2-5 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	implexa	Lightwood	6-8 x 4-6m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Albocaulonia	verticillata	Drooping sheoak	5-10 x 3-7m	1 per 6m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
Yarra River Valley (EVC 55 Floodplain Riparian Woodland)	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	viminialis ssp. viminialis	Manna gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
	Tree	Kunzea	leptospermoides	Sweet Burgan	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Kunzea	leptospermoides	Forest Burgan	2-5 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	provincialis	Wrida	6-8 x 3-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	implexa	Lightwood	6-8 x 4-6m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
Yarra River Valley Landbridge	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Kunzea	leptospermoides	Forest Burgan	2-5 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	pauciflora	Dwarf Snow Gum	4-7 x 3-5m	1 per 8m2	Tubes - 45L1
	Tree	Eucalyptus	pauciflora ssp. niphophila	Dwarf Snow Gum	5 x 3-5m	1 per 8m2	Tubes - 45L1
	Tree	Eucalyptus	pauciflora nana	Dwarf Snow Gum	4-7 x 3-5m	1 per 8m2	Tubes - 45L1
	Tree	Eucalyptus	perniosa	Spinning Gum	8 x 3-5m	1 per 8m2	Tubes - 45L1
	Tree	Melaleuca	ericifolia	Swamp paperbark	7-12 x 5-7m	1 per 6m2	Tubes - 45L1
	Tree	Melaleuca	parvatarminae	Rough barked honey myrtle	5 x 3-5m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	deabata	Silver wattle	15-20 x 8m	1 per 6m2	Tubes - 45L1
Koonung Creek Valley (EVC 58 Creeklake Grassy Woodland)	Tree	Acacia	implexa	Lightwood	6-8 x 4-6m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	pycnantha	Golden wattle	5-6 x 3m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	provincialis	Wrida	6-8 x 3-5m	1 per 3m2	Tubes - 45L1
	Tree	Acacia	melanocylon	Blackwood	7-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Acacia	meamsii	Black Wattle	10-15 x 7-10m	1 per 6m2	Tubes - 45L1
	Tree	Bursaria	spinosa	Sweet bursaria	1-5-4 x 1.5-3m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	camaluensis	River Red gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Melaleuca	parvatarminae	Rough barked honey myrtle	5 x 3-5m	1 per 6m2	Tubes - 45L1
	Tree	Melaleuca	ericifolia	Swamp paperbark	7-12 x 5-7m	1 per 6m2	Tubes - 45L1
Billabong and Swamps Wetland (EVC 172 Floodplain Wetland Complex)	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1
	Tree	Eucalyptus	ovata var ovata	Swamp gum	10-16 x 5m	1 per 12m2	Tubes - 45L1
	Tree	Eucalyptus	viminialis ssp. viminialis	Manna gum	10-25 x 5-7m	1 per 12m2	Tubes - 45L1
	Shrub	Kunzea	leptospermoides	Yarra Burgan	2-5 x 2-5m	1 per 3m2	Tubes - 45L1
	Tree	Leptospermum	ovatum	River Tree	3 x 2-3m	1 per 3m2	Tubes - 45L1
	Tree	Melicoytus	dentatus	Tree Violet	2-4 x 1.2-5m	1 per 3m2	Tubes - 45L1

Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
G2A - Garden Bed - Type 01 & G2H - Garden Bed - Type 07 Projective Wetlands & Boretention Areas	Groundcover	Acacina	novae-zelandiae	Red bedd	prostrate to 1.4m	4m2	Vrocce/Tubes
	Floating aquatic	Azolla	pinnae	Ferny Azolla	floating	6m2	Vrocce/Tubes
	Floating aquatic	Azolla	rubra	Pacific Azolla	floating	6m2	Vrocce/Tubes
	Grass	Alisma plantago-aquatica	plantago-aquatica	Water plantain	0.8m x 0.5m	6m2	Vrocce/Tubes
	Aquatic herb	Alismathera	denticulata	Lesser Joyweed	prostrate x 0.5m	6m2	Vrocce/Tubes
Grass	Amphibromus	fluten	River Swamp Wallaby-grass	0.8m x spreading	6m2	Vrocce/Tubes	
Grass	Amphibromus	minutus	Common Swamp Wallaby-gra	1.2m x spreading	6m2	Vrocce/Tubes	
Rush	Botriochloa	caldwelli	Sea Club-rush	0.3m x 1m	6m2	Vrocce/Tubes	
Rush	Botriochloa	lyviridis	Tall Club-rush	1.2m x 1.2m	6m2	Vrocce/Tubes	
Rush	Botriochloa	medeana	Mareh Club-sedge	0.75-1.5m x 0.75-1.5m	6m2	Vrocce/Tubes	
Grass	Carex	lasiocarpa	Tall sedge	0.75-0.9 x 0.75m	6m2	Vrocce/Tubes	
Sedge	Carex	brassiculata	Tassel sedge	0.5-1 x 1m	6m2	Vrocce/Tubes	
Sedge	Carex	viridis	Knob sedge	0.5 x 0.3m	6m2	Vrocce/Tubes	
Sedge	Carex	viridis	Tussock sedge	0.2-1 x 0.3m	6m2	Vrocce/Tubes	
Sedge	Carex	brassiculata	Rush Sedge	1 x 1m	6m2	Vrocce/Tubes	
Groundcover	Crassula	helmsii	Swamp Stonecrop	prostrate 50-80cm	6m2	Vrocce/Tubes	
Aquatic herb	Cyrtocarpus	procumbens	Upright Water Ribbons	1-2m x 1-2m	6m2	Vrocce/Tubes	
Sedge	Cyperus	gymnosp. gymni	Fleeced Flat Sedge	60cm -1.5m x 0.5m	6m2	Vrocce/Tubes	
Sedge	Cyperus	lucidus	Leafy Flat Sedge	30cm -1.5m x 0.5m	6m2	Vrocce/Tubes	
Aquatic herb	Geranium	rodium	Naked Crane-bit	1m x spreading	6m2	Vrocce/Tubes	
Aquatic herb	Glyceria	australis	Australian Sweet-grass	0.6m x spreading	6m2	Vrocce/Tubes	
Aquatic herb	Gratiola	genovana	Austral Floodlime	1.3m x 0.5-1.5m	6m2	Vrocce/Tubes	
Perennial Herb	Gonocarpus	brunneus	Common Raspwort	0.3 x 0.2-0.4m	6m2	Vrocce/Tubes	
Sedge	Eleocharis	acuta	Jointed Twig-sedge	60-90 cm x 0.5m	6m2	Vrocce/Tubes	
Sedge	Eleocharis	spiculatea	Tall Spike-sedge	1.5 x 1.5m	6m2	Vrocce/Tubes	
Sedge	Eleocharis	harperum	Heavy Willow Herb	8-12 x 0.75m	6m2	Vrocce/Tubes	
Grass	Hemiartha	lucida	Mat Grass	0.8m x 0.5m	6m2	Vrocce/Tubes	
Perennial Herb	Hydrocotyle	hirsa	Heavy Pennywort	0.1 x 0.25m	6m2	Vrocce/Tubes	
Sedge	Isotria	rupestris	Swamp Club-sedge	0.5m x 0.4m	6m2	Vrocce/Tubes	
Rush	Juncus	amblyus	Hollow Rush	1.2m x 0.5m	6m2	Vrocce/Tubes	
Rush	Juncus	flavus	Yellow Rush	0.4-1.2m x 0.2-1m	6m2	Vrocce/Tubes	
Rush	Juncus	sparganius	Green Rush	0.4-1.7m x 0.6-1.5m	6m2	Vrocce/Tubes	
Rush	Juncus	holoschoenus	Joint leaf Rush	0.9m x 0.1-0.4m	6m2	Vrocce/Tubes	
Rush	Juncus	calidus	Pale Rush	2m x 1m	6m2	Vrocce/Tubes	
Rush	Juncus	procerus	Tall Rush	1.2-5m x 0.5-1.5m	6m2	Vrocce/Tubes	
Rush	Juncus	subsecundus	Finger Rush	0.5-1m x 0.5-1m	6m2	Vrocce/Tubes	
Floating aquatic	Lemna	dispersa	Common Duckweed	floating	6m2	Vrocce/Tubes	
Flowering plant	Lythrum	australis	Australian Gypsywort	1.5 x 0.5m	6m2	Vrocce/Tubes	
Flowering plant	Lythrum	salicaria	Purple Loosestrife	1.5 x 1.5m	6m2	Vrocce/Tubes	
Sedge	Machaena	articulata	Jointed Twig-sedge	2m x 0.5m	6m2	Vrocce/Tubes	
Sedge	Machaena	anthrophylla	Fine Twig-sedge	1-2m x 0.5m	6m2	Vrocce/Tubes	
Sedge	Machaena	gummi	Slender Twig-sedge	1m x 0.5m	6m2	Vrocce/Tubes	
Aquatic fern	Marsipposium	crispatum	Upright Water-milfoil	0.25-0.6m x 0.3-0.6m	6m2	Vrocce/Tubes	
Aquatic fern	Marsipposium	spiculatum	Amphibious Water-milfoil	0.4m x 0.3-0.6m	6m2	Vrocce/Tubes	
Flowering plant	Ondocaulon	reniforme	Running Marsh Flower	1.3 x 2m	6m2	Vrocce/Tubes	
Flowering plant	Panicum	discolor	Slender Knotweed	0.8 x 0.5m	6m2	Vrocce/Tubes	
Flowering plant	Panicum	prostratum	Crawling Knotweed	0.8 x 0.5m	6m2	Vrocce/Tubes	
Flowering plant	Panicum	gracilimum	Spotted Knotweed	1 x 0.5m	6m2	Vrocce/Tubes	
Grass	Poa	labillardieri var labillardieri	Tussock grass	0.5-1m x 0.8-1.2m	6m2	Vrocce/Tubes	
Aquatic herb	Potamogeton	cheesmanii	Small-fruit Pondweed				

Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
G2B - Type 02 Waterway Restoration Koonung Creek Habitat	Shrub	Acacia	verticillata	Prickly Moses	2.3 x 2.3 5m	4m2	Vocell/Tubes
	Groundcover Seeding	Acacia	echinata	Sheeps Burr	0.7-1.3m	4m2	Vocell/Tubes
	Grass	Anthosachne	scabra	Common Wheat-grass	1.2m x 0.4	5m2	Vocell/Tubes
	Rush	Booboschoenus	medianus	Marsh Club-sedge	0.75-1.5m x 0.75-1.5m	5m2	Vocell/Tubes
Sedge	Carex	apressa	Tall Sedge	1.2 x 1m	5m2	Vocell/Tubes	
Sedge	Carex	ryna	Tussock sedge	0.2-1 x 0.3m	5m2	Vocell/Tubes	
Groundcover	Crassula	helmsii	Swamp Stonecrop	prostrate 50-80cm	4m2	Vocell/Tubes	
Tall Shrub	Coprosma	quadrifida	Prickly currant bush	2-2.5 x 1-1.5m	4m2	200mm pot	
Shrub	Correa	plabra var. plabra	Rock correa	1.8 x 2m	5m2	200mm pot	
Shrub	Correa	reflexa var. reflexa	Common correa	1 x 1.5m	5m2	200mm pot	
Rush	Eleocharis	acuta	Common spikerush	0.9 x 0.5m	5m2	Vocell/Tubes	
Sedge	Gahnia	radialis	Thatch saw-sedge	0.4-1m x 1m	5m2	Vocell/Tubes	
Grass	Hemarthra	uncinata	Mat Grass	0.8m x 0.5m	5m2	Vocell/Tubes	
Grass Annual Seeding	Lachnagrostis	filiformis	Common Blow-grass	0.8m x 0.25	5m2	Vocell/Tubes	
Tussock	Lomandra	filiformis	Wattle mat-rush	0.4 x 0.4m	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia longifolia	Spiny-head mat-rush	1m x 1m	5m2	Vocell/Tubes	
Flowering shrub	Lybrum	lyssopifolia	Lesser Loosestrife	0.5 x 0.5m	5m2	Vocell/Tubes	
Flowering shrub	Lybrum	salicaria	Purple Loosestrife	1.5 x 1.5m	5m2	Vocell/Tubes	
Tall Shrub	Ozothamnus	ferugineus	Tree Everlasting	2.5-4 x 2.5-4m	5m2	Vocell/Tubes	
Flowering herb	Persicaria	decipiens	Slender knotweed	0.8 x 0.8m	6m2	Vocell/Tubes	
Grass	Poa	labillardieri	Tussock grass	0.8-1m x 0.8-1.2m	5m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Grass spreading lawn	Rytidosperma	duttonianum	Brown-back Wallaby grass	0.2-0.8 x 0.4m	5m2	Vocell/Tubes	
Grass	Themeda	frandra	Kangaroo grass	0.4-0.6 x 0.5-0.7m	5m2	Vocell/Tubes	
Flowering perennial	Veronica	gracilis	Slender Speedwell	0.3 x 0.5-1m	4m2	Vocell/Tubes	
Large shrub	Acacia	paradonata	Hedge wattle	2-4 x 2-5 m	4m2	200mm pot	
Flowering Plant	Dodonaea	viscosa	Sticky Hop Bush	5 x 2m	4m2	200mm pot	
Tall Shrub	Ozothamnus	ferugineus	Tree Everlasting	2-5 x 2-4 m	4m2	200mm pot	
Large shrub	Pomadernia	prunifolia	Plum Leaf	1-4 x 1-4 m	4m2	200mm pot	
Grass	Austrostipa	molis	Soft Spear-grass	1.2 x 0.25m	5m2	Vocell/Tubes	
Grass	Austrostipa	ellegantissima	Tall Spear-grass	2 x 0.25m	5m2	Vocell/Tubes	
Grass	Austrostipa	semiberbata	Fibrous Spear-grass	0.9 x 0.2m	5m2	Vocell/Tubes	
Grass	Austrostipa	ecabra	Rough Spear-grass	0.6 x 0.2m	5m2	Vocell/Tubes	
Tender herb	Astrokma	humifusum	Cranberry heath	0.1 x 0.6-1m	4m2	Vocell/Tubes	
Groundcover Seeding	Acacia	echinata	Sheeps Burr	0.7-1.3m	4m2	Vocell/Tubes	
Grass	Anthosachne	scabra	Common Wheat-grass	1.2m x 0.4	5m2	Vocell/Tubes	
Grass	Carex	apressa	Tall sedge	0.75-0.9 x 0.75m	5m2	Vocell/Tubes	
Groundcover	Dichondra	repens	Kidney Weed	prostrate to 2m	4m2	Vocell/Tubes	
Tussock	Dianella	revoluta var revoluta	Black-anther lily	0.6 x 1m	5m2	Vocell/Tubes	
Climber	Wardenbergia	volacea	Purple coral-pea	3 x 2 m	4m2	Vocell/Tubes	
Grass Annual Seeding	Lachnagrostis	filiformis	Common Blow-grass	0.8m x 0.25	5m2	Vocell/Tubes	
Tussock	Lomandra	filiformis	Wattle mat-rush	0.4 x 0.4m	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia longifolia	Spiny-head mat-rush	1m x 1m	5m2	Vocell/Tubes	
Grass	Poa	labillardieri	Tussock grass	0.5-1.3 x 0.3-0.7m	5m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Grass	Rytidosperma	caespitosa	Common Wallaby-grass	0.2-0.4 x 0.4m	5m2	Vocell/Tubes	
Grass	Rytidosperma	racematum	Clustered Wallaby-grass	0.2 x 0.15m	5m2	Vocell/Tubes	
Shrub	Acacia	verticillata	Prickly Moses	2-3 x 2-3 5m	4m2	Vocell/Tubes	
Rush	Booboschoenus	medianus	Marsh Club-sedge	0.75-1.5 x 0.75-1.5m	5m2	Vocell/Tubes	
Sedge	Carex	apressa	Tall Sedge	0.5-1.2 x 0.5-1m	5m2	Vocell/Tubes	
Sedge	Carex	ryna	Tussock sedge	0.2-1 x 0.3m	5m2	Vocell/Tubes	
Groundcover	Crassula	helmsii	Swamp Stonecrop	prostrate 50-80cm	4m2	Vocell/Tubes	
Tall Shrub	Coprosma	quadrifida	Prickly currant bush	2-2.5 x 1-1.5m	4m2	Vocell/Tubes	
Rush	Eleocharis	acuta	Common spikerush	0.9 x 0.5m	5m2	Vocell/Tubes	
Sedge	Gahnia	radialis	Thatch saw-sedge	0.4-1m x 1m	5m2	Vocell/Tubes	
Grass	Hemarthra	uncinata	Mat Grass	0.8m x 0.5m	5m2	Vocell/Tubes	
Tussock	Lomandra	filiformis	Wattle mat-rush	0.4 x 0.4m	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia longifolia	Spiny-head mat-rush	1m x 1m	5m2	Vocell/Tubes	
Flowering shrub	Lybrum	lyssopifolia	Lesser Loosestrife	0.5 x 0.5m	5m2	Vocell/Tubes	
Flowering shrub	Lybrum	salicaria	Purple Loosestrife	1.5 x 1.5m	5m2	Vocell/Tubes	
Flowering herb	Persicaria	decipiens	Slender knotweed	0.8 x 0.8m	4m2	Vocell/Tubes	
Grass	Poa	labillardieri	Tussock grass	0.8-1m x 0.8-1.2m	5m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Grass spreading lawn	Rytidosperma	duttonianum	Brown-back Wallaby grass	0.2-0.8 x 0.4m	4m2	Vocell/Tubes	
Grass	Themeda	frandra	Kangaroo grass	0.4-0.6 x 0.5-0.7m	5m2	Vocell/Tubes	
Flowering perennial	Veronica	gracilis	Slender Speedwell	0.3 x 0.5-1m	4m2	Vocell/Tubes	

Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
G2C - Garden Bed - Type 03 Habitat Corridor Projectwide Habitat Corridor	Groundcover	Acacia	novae-zelandiae	Bidge widgee	prostrate to 2m	4m2	Vocell/Tubes
	Groundcover	Atriplex	semibaccata	Berry saltbush	prostrate to 0.4m	4m2	Vocell/Tubes
	Groundcover	Caropobolus	modestus	Inland Pflace	prostrate to 0.5m	4m2	Vocell/Tubes
	Grass	Carex	apressa	Tall sedge	0.75-0.9 x 0.75m	5m2	Vocell/Tubes
Tall Shrub	Coprosma	quadrifida	Prickly currant bush	2-2.5 x 1-1.5m	4m2	200mm pot	
Sedge	Cyperus	guni-ssp-guni	Fleeced Flat-sedge	30cm x 1.5m x 0.5m	5m2	Vocell/Tubes	
Sedge	Cyperus	lucidus	Leafy Flat Sedge	30cm x 1.5m x 0.5m	5m2	Vocell/Tubes	
Tussock	Dianella	longifolia	Pale fax-lily	0.5 x 0.5m	5m2	Vocell/Tubes	
Groundcover	Dichondra	repens	Kidney Weed	prostrate to 2m	4m2	Vocell/Tubes	
Succulent	Disphyma	crassifolium	Disphyma	prostrate to 0.8m	4m2	Vocell/Tubes	
Succulent	Enadla	nudans	Climbing saltbush	prostrate to 0.8m	4m2	Vocell/Tubes	
Succulent	Enadla	froncos subsp. Tripanos	Lax Goosefoot	prostrate to 2m	4m2	Vocell/Tubes	
Groundcover	Eremophila	debilis	Winter apple	prostrate to 2m	4m2	Vocell/Tubes	
Shrub	Goodenia	ovata	Hop goodenia	1-1.5 x 1.5 - 2m	4m2	Vocell/Tubes	
Perennial herb	Hydrocotyle	hirta	Hairy Pennywort	0.1 x 0.25m	4m2	Vocell/Tubes	
Rush	Juncus	amblyus	Hollow Rush	1.2m x 0.5m	5m2	Vocell/Tubes	
Groundcover	Kunzea	pomifera	Muntries	prostrate to 0.3m	4m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Groundcover	Myoporum	parvifolium 'fire form'	Creeping Myoporum	prostrate to 2m	4m2	Vocell/Tubes	
Groundcover	Myoporum	prostrata	Common booballa	prostrate to 0.5m	4m2	Vocell/Tubes	
Tall Shrub	Ozothamnus	ferugineus	Tree Everlasting	2-5 x 2-4 m	4m2	200mm pot	
Flowering plant	Pterocarya	suberosa	Hairy Knotweed	1 x 0.5m	5m2	Vocell/Tubes	
Tall Shrub	Prostanthera	lesae-frag	Victoria Christmas Bush	3-5 x 2-3m	4m2	200mm pot	
Grass	Poa	labillardieri var labillardieri	Tussock grass	0.8-1m x 0.8-1.2m	5m2	Vocell/Tubes	
Shrub	Pomadernia	aspera	Hazels Pomadernia	3-5 x 2-4m	4m2	200mm pot	
Shrub	Rhagodia	parabola	Fragrant saltbush	1.3 x 2m	4m2	Vocell/Tubes	
Shrub	Rhagodia	spinescens	Hedged saltbush	0.5-1.5 x 1.5-3m	4m2	Vocell/Tubes	
Flowering perennial	Seneccio	quadridentatus	Cottony Fireweed	1 x 0.25m	4m2	Vocell/Tubes	
Flowering perennial	Veronica	calycina	Trailing Speedwell	prostrate to 2m	4m2	Vocell/Tubes	
G2D - Garden Bed - Type 04 Roadway Planting Projectwide Roadway Corridor	Groundcover	Acacia	novae-zelandiae	Bidge widgee	prostrate to 1-4m	4m2	Vocell/Tubes
	Grass	Rytidosperma	caespitosa	Common Wallaby grass	0.2-0.8 x 0.4m	5m2	Vocell/Tubes
	Grass spreading lawn	Rytidosperma	duttonianum	Brown-back Wallaby grass	0.2-0.8 x 0.4m	5m2	Vocell/Tubes
	Grass	Rytidosperma	racematum	Walaby grass	0.2-0.8 x 0.2m	5m2	Vocell/Tubes
Tussock	Dichelagrostis	conilis	Long-hair Plume-grass	1 x 0.25m	5m2	Vocell/Tubes	
Succulent	Enadla	nudans	Climbing saltbush	prostrate to 0.8m	4m2	Vocell/Tubes	
Sedge	Rytidosperma	laterale	Variable sword-sedge	0.3-1m x 0.3-1m	5m2	Vocell/Tubes	
Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Grass	Poa	rodwayi	Tussock grass	0.6 x 0.6m	5m2	Vocell/Tubes	
Fern	Pteridium	esculentum subsp. esculentum	Austral Braken	0.3-0.5m x 0.8-1.2m	5m2	Vocell/Tubes	
Grass	Themeda	frandra	Kangaroo grass	0.4-0.5 x 0.5-0.7m	5m2	Vocell/Tubes	
Flowering perennial	Veronica	gracilis	Slender Speedwell	0.3 x 0.5-1m	4m2	Vocell/Tubes	
Grass	Austrostipa	molis	Soft Spear-grass	1.2 x 0.25m	5m2	Vocell/Tubes	
Grass	Austrostipa	ellegantissima	Tall Spear-grass	2 x 0.25m	5m2	Vocell/Tubes	
Grass	Austrostipa	semiberbata	Fibrous Spear-grass	0.9 x 0.2m	5m2	Vocell/Tubes	
Grass	Austrostipa	ecabra	Rough Spear-grass	0.6 x 0.2m	5m2	Vocell/Tubes	
Tender herb	Astrokma	humifusum	Cranberry heath	0.1 x 0.6-1m	4m2	Vocell/Tubes	
Groundcover	Atriplex	semibaccata	Berry saltbush	0.4-0.8 x 1.5-2m	4m2	Vocell/Tubes	
G2B - Type 02 Waterway Restoration Banyule Creek Habitat	Groundcover	Acacia	novae-zelandiae	Bidge widgee	prostrate 1-4m	4m2	Vocell/Tubes
	Climber	Billardiera	scandens	Common apple-berry	light climber	4m2	Vocell/Tubes
	Flowering plant	Bossea	prostrata	Creeping Bossea	0.3 x 0.5 - 1m	6m2	Vocell/Tubes
	Tender lily	Bulbine	bulbosa	Bulbine Lily	0.1 x 0.3m	5m2	Vocell/Tubes
Flowering herb	Chrysoccephalum	apiculatum	Common everlasting	0.6-1.5	4m2	Vocell/Tubes	
Flowering herb	Chrysoccephalum	semipapposum	Clustered everlasting	0.8 x 0.5-1m	4m2	Vocell/Tubes	
Groundcover	Clematis	microphylla	Small-leaved clematis	light climber	4m2	Vocell/Tubes	
Shrub	Dillwynia	coneracens	Grey pan-of-pea	0.7-1 x 0.9m	4m2	Vocell/Tubes	
Shrub	Enchylaena	tomentosa	Ruby saltbush	prostrate to 1.5m	6m2	Vocell/Tubes	
Prostrate herb	Enadla	nudans	Climbing saltbush	0.1 x 0.8m	4m2	Vocell/Tubes	
Shrub	Eragrostis	impressa	Common heath	0.5-1m x 0.4-0.7m	4m2	Vocell/Tubes	
Perennial herb	Gonocarpus	triquetrus	Common Raspwort	0.3 x 0.3	4m2	Vocell/Tubes	
Climber	Wardenbergia	volacea	Purple coral-pea	light climber	6m2	Vocell/Tubes	
Groundcover	Helichrysum	scopoides	Burton Everlasting	0.3 x 0.8-1.5m	4m2	Vocell/Tubes	
Groundcover	Palargonium	australe	Austral Stick's-bill	0.6 x 0.3-1m	4m2	Vocell/Tubes	
Flowering shrub	Pimelea	humilis	Common rice-flower	0.3 x 0.4-0.8m	4m2	Vocell/Tubes	
Shrub	Platylabus	obtusangulum	Common Flat-pea	0.8 x 0.8-1.2m	4m2	Vocell/Tubes	
Shrub	Pultenaea	dischordata	Large-leaf bitter pea	1-3m x 1-1.5m	4m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Tending shrub	Muehlenbeckia	adpressa	Climbing Legum	0.6 x 0.8	6m2	Vocell/Tubes	
Grass	Rytidosperma	palillum	Silver-top Wallaby grass	1.3 x 0.5m	6m2	Vocell/Tubes	
Grass	Themeda	frandra	Kangaroo grass	0.4-0.5 x 0.5-0.7m	6m2	Vocell/Tubes	
Grass Tree	Xanthorrhoea	minor ssp. lutea	Small Grass Tree	0.5 x 0.8	6m2	Vocell/Tubes	
Flowering annual	Xerochrysum	viccosum	Sticky everlasting	0.9 x 0.5	4m2	Vocell/Tubes	
Groundcover	Acacia	novae-zelandiae	Bidge widgee	prostrate to 1-4m	4m2	Vocell/Tubes	
Shrub	Cassia	longifolia	Shiny cassia	3 x 1.5-2.5m	1m2	Vocell/Tubes	
Tussock	Dianella	longifolia	Pale fax-lily	0.5 x 0.5m	5m2	Vocell/Tubes	
Succulent	Enadla	nudans	Climbing saltbush	prostrate to 0.8m	4m2	Vocell/Tubes	
Shrub	Goodenia	ovata	Hop goodenia	1-1.5 x 1.5 - 2m	4m2	Vocell/Tubes	
Shrub	Olax	hirta	Snowy Daisy bush	4m x 1m	4m2	Vocell/Tubes	
Grass	Microloena	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5m2	Vocell/Tubes	
Grass	Poa	labillardieri var labillardieri	Tussock grass	0.8-1m x 0.8-1.2m	5m2	Vocell/Tubes	
Fern	Pteridium	esculentum subsp. esculentum	Austral Braken	0.3-0.5m x 0.8-1.2m	5m2	Vocell/Tubes	
Flowering perennial	Veronica	calycina	Hairy Speedwell	prostrate to 0.5m	4m2	Vocell/Tubes	

Approved SIZ content and design detail from NEL Tunnels UDLP has been

Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
G2E - Garden Bed - Type 05 Massed Groundcovers Projectwide Massed Groundcovers	Groundcover	Acacia	novae-zelandiae	Bidgee widgee	prostrate to 1-4m	4/m2	Wocell/Tubes
	Grass	Rytdosperma	caespitosa	Common Wallaby grass	0.2-0.8 x 0.4m	5/m2	Wocell/Tubes
	Grass spreading lawn	Rytdosperma	diffusum	Brown-back Wallaby grass	0.2-0.8 x 0.4m	5/m2	Wocell/Tubes
	Grass	Rytdosperma	racemosum var racemosum	Wallaby grass	0.2-0.8 x 0.2m	5/m2	Wocell/Tubes
	Tussock	Dactyloctenium	ovoides	Long-hair Plume-grass	1 x 0.25m	5/m2	Wocell/Tubes
	Succulent	Enallagma	nudum	Climbing saltbush	prostrate to 0.8m	4/m2	Wocell/Tubes
	Sedge	Lepidosperma	laterale	Variable sword-sedge	0.3-1m x 0.3-1m	5/m2	Wocell/Tubes
	Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5/m2	Wocell/Tubes
	Grass	Microseris	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5/m2	Wocell/Tubes
	Grass	Poa	rodwayi	Tussock grass	0.6 x 0.6-0.8	5/m2	Wocell/Tubes
	Fern	Phendium	esculentum subsp. esculentum	Austral Braken	0.3-0.5m x 0.8-1.2m	5/m2	Wocell/Tubes
	Grass	Themeda	trandra	Kangaroo grass	0.4-0.6 x 0.5-0.7m	5/m2	Wocell/Tubes
	Flowering perennial	Veronica	gracilis	Slender Speedwell	0.3 x 0.5-1m	6/m2	Wocell/Tubes
	Flowering shrub	Acacia	aculeata	Gold dust wattle	1.2-2m x 1.5-2m	1/m2	200mm pot
	Groundcover	Acacia	aculeata	Thin-leaf wattle	0.3-1 x 1.5m	4/m2	Wocell/Tubes
	Groundcover	Acacia	novae-zelandiae	Bidgee-widgee	prostrate 1-4m	4/m2	Wocell/Tubes
	Groundcover Seeding	Acacia	echinata	Sheeps Burr	0.7-1.3m	4/m2	Wocell/Tubes
	Grass	Austrotopa	nuda	Vined Spear-grass	1.3 x 0.5m	5/m2	Wocell/Tubes
	Grass	Austrotopa	mollis	Soft Spear-grass	1.2 x 0.5m	5/m2	Wocell/Tubes
	Climber	Billardiera	scandens	Common apple-berry	0.2-1.5 x 0.5-3m	6/m2	Wocell/Tubes
	Flowering plant	Boraginaceae	prostrata	Creeping Bossiaea	0.3 x 0.5 - 1m	6/m2	Wocell/Tubes
	Shrub/tree	Bursaria	spinosa sub spinosa	Sweet Bursaria	2.4 x 2-3m	1/m2	200mm pot
	Flowering plant	Chrysanthemum	sempervivum	Clustered Everlasting	0.5-0.8 x 0.5-1m	6/m2	Wocell/Tubes
	Groundcover	Chrysanthemum	apiculatum	Common everlasting	0.3-0.6 x 1-1.5m	4/m2	Wocell/Tubes
	Shrub	Daviesia	leptophylla	Narrow-leaf Bitter Pea	1.5-2m x 1-1.5m	4/m2	Wocell/Tubes
	Grass	Dianella	revoluta var revoluta	Black Anther Lily	0.5 x 0.5m	5/m2	Wocell/Tubes
	Groundcover	Dichondra	repens	Kidney Weed	prostrate to 2m	4/m2	Wocell/Tubes
	Shrub	Dillwynia	cinerascens	Grey parrot-pea	0.7-1 x 0.9m	4/m2	Wocell/Tubes
	Groundcover	Disphyma	crassifolium	Rounded non-flower	0.1 x 1-2m	4/m2	Wocell/Tubes
	Prostrate herb	Enallagma	nudum	Climbing saltbush	0.1 x 0.8m	4/m2	Wocell/Tubes
	Shrub	Epacris	impressa	Common heath	0.5-1m x 0.4-0.7m	4/m2	Wocell/Tubes
	Sedge	Gahnia	radula	Thatch saw-sedge	1m x 0.5m	6/m2	Wocell/Tubes
	Groundcover	Geranium	solanderi	Austral cranes-bill	0.5 x 0.6 - 1.5m	4/m2	Wocell/Tubes
	Climber	Hardenbergia	violacea	Purple coral pea	light climber	6/m2	Wocell/Tubes
	Groundcover	Helichrysum	scopoides	Button Everlasting	0.3 x 0.8-1.5m	4/m2	Wocell/Tubes
	Shrub	Indigofera	australis	Australian Indigo	1-2m x 1.5-2.5m	1/m2	200mm pot
	Tussock	Lomandra	longifolia longifolia	Spiny-head mat-rush	1m x 1m	5/m2	Wocell/Tubes
	Tussock	Lomandra	filiformis	Wattle mat-rush	0.4 x 0.4m	5/m2	Wocell/Tubes
	Grass	Microseris	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5/m2	Wocell/Tubes
	Shrub	Mycoporum	petiolatum	Sticky Boobiala	2m x 1m	1/m2	Wocell/Tubes
	Grass	Poa	labillardieri	Tussock grass	0.8-1m x 0.8 - 1.2m	5/m2	Wocell/Tubes
	Grass	Poa	moroni	Velvet Tussock Grass	0.9 x 0.5	5/m2	Wocell/Tubes
	Grass	Poa	sieberiana var sieberiana	Grey tussock grass	0.3 x 0.4m	5/m2	Wocell/Tubes
	Flowering shrub	Pultenaea	gunni	Golden Bush Pea	0.8-1.2 x 0.8m	1/m2	Wocell/Tubes
	Shrub	Rhagodia	parabolica	Fragrant saltbush	2m x 2m	1/m2	Wocell/Tubes
	Shrub	Rhagodia	candolleana	Seaberry saltbush	4m x 4m	1/m2	Wocell/Tubes
	Shrub	Rhagodia	candolleana sp. candolleana	Broad-leaved Coastal Seaberry	4m x 4m	1/m2	Wocell/Tubes
	Grass	Rytdosperma	palidum	Silver-top Wallaby grass	1.8 x 0.5m	5/m2	Wocell/Tubes
	Grass	Rytdosperma	racemosum	Wallaby grass	0.8 x 0.5m	5/m2	Wocell/Tubes
	Flowering perennial	Veronica	gracilis	Slender Speedwell	0.3 x 0.5-1m	5/m2	Wocell/Tubes
	Flowering ground cover	Viola	hederacea	Native violet	0.2 x 0.5-1m	4/m2	Wocell/Tubes
	Grass	Themeda	trandra	Kangaroo grass	0.4-0.6 x 0.5-0.7m	5/m2	Wocell/Tubes
	Groundcover	Acacia	aculeata	Thin-leaf wattle	0.3-1-1.5	4/m2	Wocell/Tubes
	Shrub/tree	Bursaria	spinosa sub spinosa	Sweet Bursaria	2.4 x 2-3m	1/m2	200mm pot
	Groundcover	Acacia	novae-zelandiae	Bidgee-widgee	prostrate 1-4m	4/m2	Wocell/Tubes
	Shrub	Cassinia	aculeata	Common cassinia	2.5-3.5 x 1.5-2.5m	1/m2	200mm pot
	Shrub	Cassinia	longifolia	Shiny cassinia	3 x 1.5-2.5m	1/m2	200mm pot
	Groundcover	Atriplex	aemibaccata	Berry saltbush	0.4-0.8 x 1.5-2m	4/m2	Wocell/Tubes
	Shrub/tree	Banksia	marginata	Silver banksia	2.5-4 x 2-3m	1/m2	200mm pot
	Shrub	Correa	glabra var glabra	Rock correa	1.8 x 2m	1/m2	200mm pot
	Shrub	Correa	reflexa var reflexa	Common correa	1 x 1.5m	1/m2	200mm pot
	Shrub	Daviesia	leptophylla	Narrow-leaf bitter-pea	1.5 x 2m	1/m2	Wocell/Tubes
	Tussock	Dianella	revoluta var revoluta	Black-anther lily	0.6 x 1m	5/m2	Wocell/Tubes
	Tussock	Dianella	longifolia	Pale flax-lily	0.6 x 0.5m	5/m2	Wocell/Tubes
	Shrub	Enchylaena	tomentosa	ruby saltbush	prostrate to 1.5m	1/m2	Wocell/Tubes
	Sedge	Gahnia	radula	Thatch saw-sedge	1m x 0.5m	5/m2	Wocell/Tubes
	Shrub	Goodenia	ovata	Hop goodenia	1-1.5 x 1.5 - 2m	1/m2	Wocell/Tubes
	Shrub	Indigofera	australis	Australian Indigo	1-2m x 1.5-2.5m	1/m2	Wocell/Tubes
	Sedge	Lepidosperma	laterale	Variable sword-sedge	0.3-1m x 0.3-1m	5/m2	Wocell/Tubes
	Grass	Lomandra	filiformis	Mat-rush	0.4 x 0.4m	5/m2	Wocell/Tubes
	Tussock	Lomandra	longifolia longifolia	Spiny-head mat-rush	1m x 1m	5/m2	Wocell/Tubes
	Tussock	Lomandra	longifolia	Basket grass	0.8 x 0.6	5/m2	Wocell/Tubes
	Grass	Poa labillardieri		Tussock grass	0.8-1m x 0.8 - 1.2m	5/m2	Wocell/Tubes
	Grass	Poa sieberiana		grey tussock grass	0.3 x 0.4m	5/m2	Wocell/Tubes
	Grass	Poa	moroni	Velvet Tussock Grass	0.9 x 0.5	5/m2	Wocell/Tubes
	Flowering perennial	Senecio	glomeratus	Fireweed	2m x 0.25m	4/m2	Wocell/Tubes
	Grass	Themeda	trandra	Kangaroo grass	0.4-0.6 x 0.5-0.7m	5/m2	Wocell/Tubes
	Grass Tree	Xanthorrhoea	minor sub. lutea	Small Grass Tree	0.5 x 0.8	6/m2	Wocell/Tubes
	Flowering annual	Xerochrysum	viscosum	Sticky everlasting	0.9 x 0.5	4/m2	Wocell/Tubes
	Large shrub	Acacia	paradora	hedge wattle	2.5-4m x 2.5-4m	1/m2	200mm pot
	Shrub	Acacia	vermiculata	Vermish wattle	3-4 x 3-4m	1/m2	200mm pot
	Shrub	Acacia	verticillata	Prickly Moses	2-3 x 2-3.5m	1/m2	200mm pot
	Tall Shrub	Coprosma	quadrifida	Prickly currant bush	2-2.5 x 1-1.5m	1/m2	200mm pot
	Flowering Plant	Dodonaea	viscosa sub. cuneata	Wedge-leaf Hop Bush	3m x 2m	1/m2	200mm pot
	Large Shrub	Gonolobus	australis	Hemp bush	5m x 1.5m	1/m2	200mm pot
	Large Shrub	Lomandra	myricoides	River lomandra	5m x 1.5m	1/m2	200mm pot
	Shrub	Rhagodia	candolleana	seaberry saltbush	2-3 x 2-4m	1/m2	200mm pot
	Large Shrub	Pomadouria	racemosa	Clustered Pomadouria	2-3m x 1-2m	1/m2	200mm pot
	Large shrub	Pomadouria	plumifolia	Plum-leaf	2-3 x 2-4m	1/m2	200mm pot

Planting Type	Form	Genus	SPECIES	COMMON NAME	MATURE SIZE (HxW)	DENSITY	SIZE RANGE
G2F - Garden Bed - Type 07 Greenroof	Groundcover	Acacia	novae-zelandiae	Bidgee-widgee	prostrate to 2m	4/m2	Wocell/Tubes
	Groundcover	Atriplex	aemibaccata	Berry saltbush	prostrate to 0.4m	4/m2	Wocell/Tubes
	Groundcover	Carpobrotus	modestus	Inland Pigface	prostrate to 0.5m	4/m2	Wocell/Tubes
	Grass	Carex	quadrifida	Tall sedge	8.75-0.9 x 0.75m	5/m2	Wocell/Tubes
	Tall Shrub	Coprosma	quadrifida	Prickly currant bush	2.2-5 x 1-1.5m	4/m2	200mm pot
	Sedge	Cyperus	sumi sub sumi	Flashed Flat-sedge	30cm - 1.5m x 0.5m	5/m2	Wocell/Tubes
	Sedge	Cyperus	lucida	Leaky Flat Sedge	30cm - 1.5m x 0.5m	5/m2	Wocell/Tubes
	Tussock	Dianella	longifolia	Pale flax-lily	0.6 x 0.5m	5/m2	Wocell/Tubes
	Groundcover	Dichondra	repens	Kidney Weed	prostrate to 2m	4/m2	Wocell/Tubes
	Succulent	Disphyma	crassifolium	Disphyma	prostrate to 0.8m	4/m2	Wocell/Tubes
	Succulent	Enallagma	nudum	Climbing saltbush	prostrate to 0.8m	4/m2	Wocell/Tubes
	Succulent	Enallagma	fragrans subsp. fragrans	Lux Gossyflor	prostrate to 2m	4/m2	Wocell/Tubes
	Groundcover	Eremophila	debilis	Winter apple	prostrate to 2m	4/m2	Wocell/Tubes
	Shrub	Goodenia	ovata	Hop goodenia	1-1.5 x 1.5 - 2m	4/m2	Wocell/Tubes
	Perennial Herb	Hydrocotyle	hirata	Hairy Pennywort	0.1 x 0.25m	4/m2	Wocell/Tubes
	Rush	Juncus	amabilis	Hollow Rush	1.2m x 0.5m	5/m2	Wocell/Tubes
	Groundcover	Kunzea	paniculata	Muntries	prostrate to 0.3m	4/m2	Wocell/Tubes
	Grass	Microseris	stipoides var stipoides	Weeping Grass	0.5 x 0.30-0.60	5/m2	Wocell/Tubes
	Groundcover	Mycoporum	petiolatum fine form	Creeping Myoporum	prostrate to 2m	4/m2	Wocell/Tubes
	Groundcover	Mycoporum	acrotale	Common boobiala	prostrate to 0.5m	4/m2	Wocell/Tubes
	Tall Shrub	Onoclitus	subscissus	Tree Everlasting	2.5 x 2-4 m	4/m2	200mm pot
	Flowering plant	Panicum	subscissus	Hairy Knotweed	1 x 0.5m	5/m2	Wocell/Tubes
	Tall Shrub	Prostanthera	laxaniflora	Victoria Christmas Bush	3-5 x 2-3m	4/m2	200mm pot
	Grass	Poa	labillardieri var labillardieri	Tussock grass	0.8-1m x 0.8-1.2m	5/m2	Wocell/Tubes
	Shrub	Pomadouria	racemosa	Hazels Pomadouria	3-5 x 2-4m	4/m2	200mm pot
	Shrub	Rhagodia	parabolica	Fragrant saltbush	1-3 x 2m	4/m2	Wocell/Tubes
	Shrub	Rhagodia	spinescens	Hedged saltbush	8.5-1.5 x 1.5-3m	4/m2	Wocell/Tubes
	Flowering perennial	Senecio	glomeratus	Cotton Fireweed	1 x 0.25m	4/m2	Wocell/Tubes
	Flowering perennial	Veronica	gracilis	Training Speedwell	prostrate to 2m	4/m2	Wocell/Tubes

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MASTER PLANT SCHEDULE NOTES

- SPARK WILL UNDERTAKE FURTHER CONSULTATION WITH THE RELEVANT STAKEHOLDERS, INCLUDING COUNCILS AND THE WURUNDJERI WOJ-WURRUNG, THROUGHOUT THE DESIGN DEVELOPMENT PHASE.
- SPARK WILL UNDERTAKE AN ANALYSIS ON THE POTENTIAL TO INCREASE PLANTING DENSITIES AND PLANTING LAYERING DURING THE DESIGN DEVELOPMENT PHASE.
- REFER SOFT SURFACE TREATMENT LEGEND FOR DESCRIPTIONS OF GARDEN TREATMENTS TYPES G2A, G2B, G2C, G2D, G2E, G2F

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02 FOR REVIEW	23.06.2022	APPROVED BY	R.NAYLOR	17.10.2022	
01 PUBLIC EXHIBITION	02.05.2022				
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<p>NORTH EAST LINK TUNNELS UDLP</p> <p>ATTACHMENT 2</p> <p>LANDSCAPING PLAN</p> <p>MASTER PLANT SCHEDULE 03</p>			<p>PROJECT CONTRACT: NELP DRAWING No. NEL-CNT-TRA-2990-ULS-DRG-0007</p> <p>SUIT. CODE</p> <p>REVISION 06</p>		

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SELECTIVE PLANTING PALETTE IMAGES

RIDGELINE



YARRA RIVER VALLEY



KOONUNG CREEK VALLEY



TREE



TREE



TREE



SHRUB, GRASS & GROUNDCOVER



SHRUB, GRASS & GROUNDCOVER



SHRUB, GRASS & GROUNDCOVER



T:\Project\NEL\2019\1010-0206-02 - NEL PP01 - Project Visuals - JDLP Submission\DR-Drawing Set (100-999)\NEL-CNT-TRA-2990-ULS-DRG-0008.dgn

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NORTH EAST LINK TUNNELS PROJECT

UDLP ATTACHMENT 2 - LANDSCAPE LANDSCAPE WORKS - SOUTH



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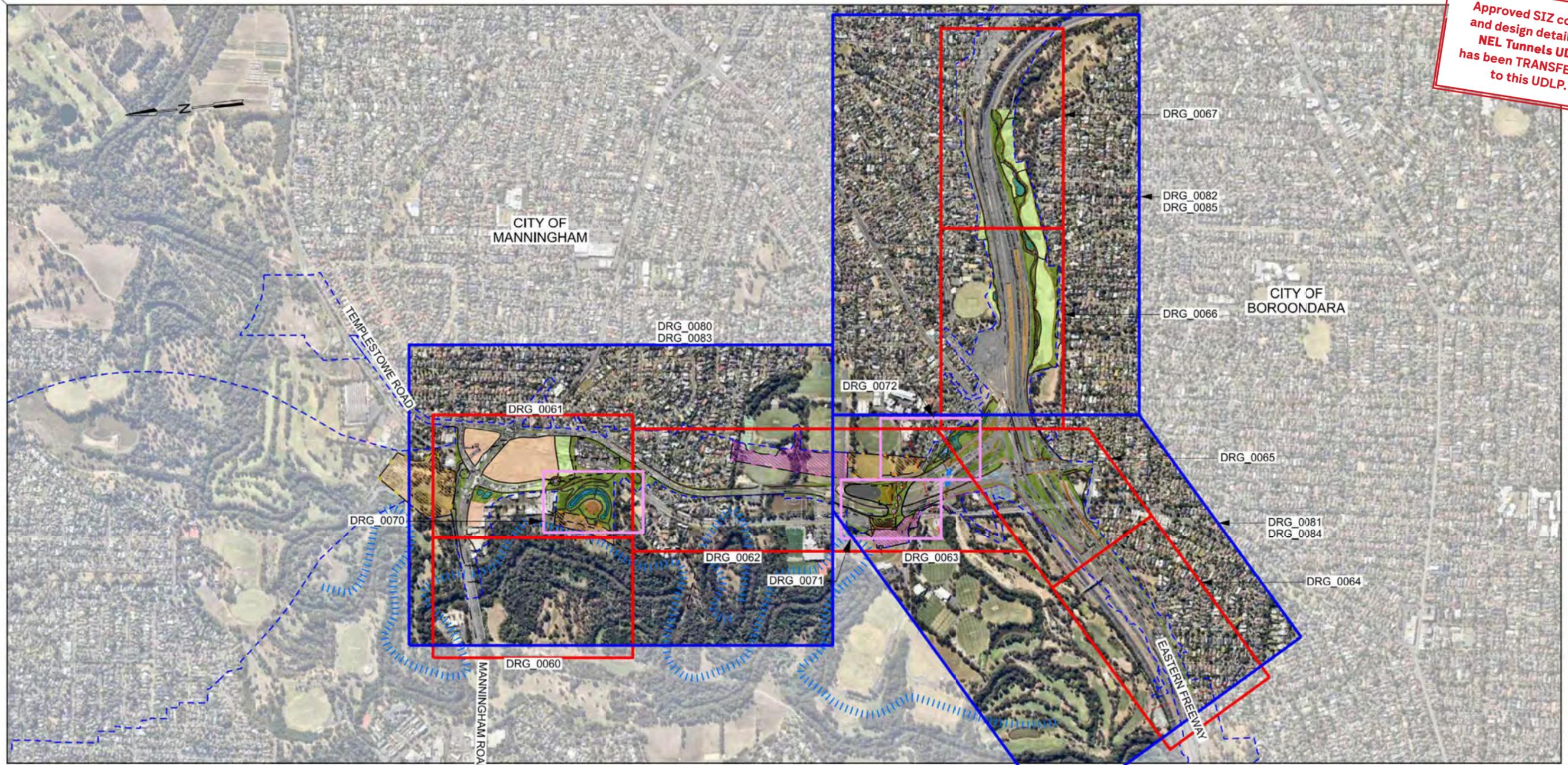
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DOT DRAWING No.:	REV.:
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SOUTH COVER SHEET	
PROJECT CONTRACT.:	NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0050
SUIT. CODE	REVISION
	06

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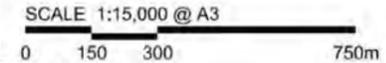


LEGEND

PROJECT BOUNDARY

KEY PLAN

1:15,000



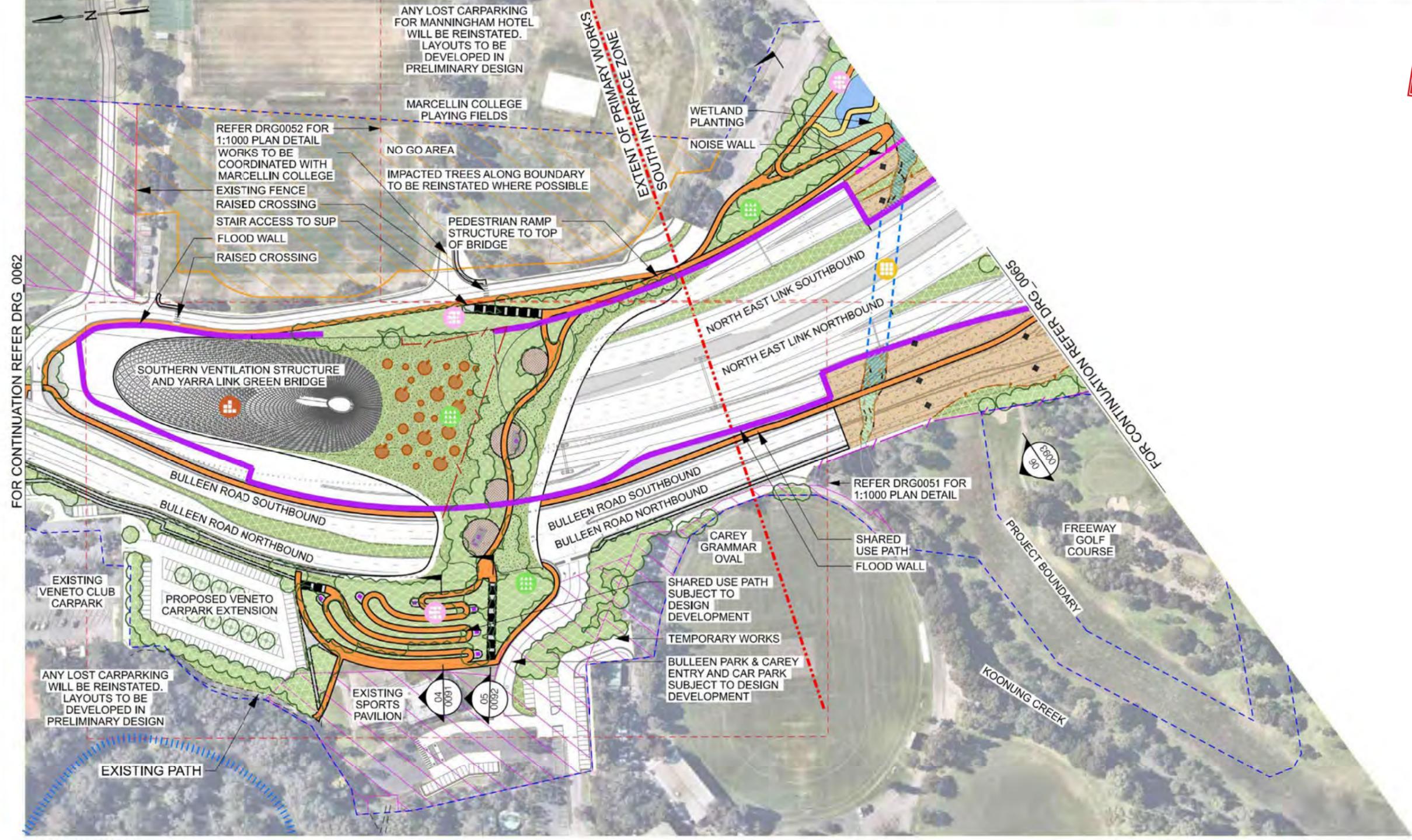
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LEGEND
FOR FURTHER DETAIL REFER MASTER LEGEND DRG-0003 AND DRG-0004

- PROJECT BOUNDARY
- NOISE WALL
- FLOOD WALL
- INDICATIVE FUTURE TREE CANOPY
- GRASS
- SHRUB & GROUND COVER PLANTING
- WATERWAY RETENTION PLANTING
- SHARED USE PATH
- CONCRETE PAVING
- GRAVEL TREATMENT
- TIMBER BRIDGE
- SOFTFALL

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SCALE 1:2000 @ A3
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DOT DRAWING No.:	REV.:		
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SURFACE TREATMENT PLAN SHEET 04			
PROJECT CONTRACT.:	NELP DRAWING No.:	SUIT. CODE	REVISION
	NEL-CNT-TRA-2990-ULS-DRG-0063		06

LEGEND
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	PROJECT BOUNDARY		INDICATIVE FUTURE TREE CANOPY		SHRUB & GROUND COVER PLANTING		WATERWAY RETENTION PLANTING		SHARED USE PATH		TIMBER BRIDGE
	NOISE WALL		GRASS		SHRUB & GROUND COVER PLANTING		WATERWAY RETENTION PLANTING		CONCRETE PAVING		SOFTFALL
	FLOOD WALL								GRAVEL TREATMENT		



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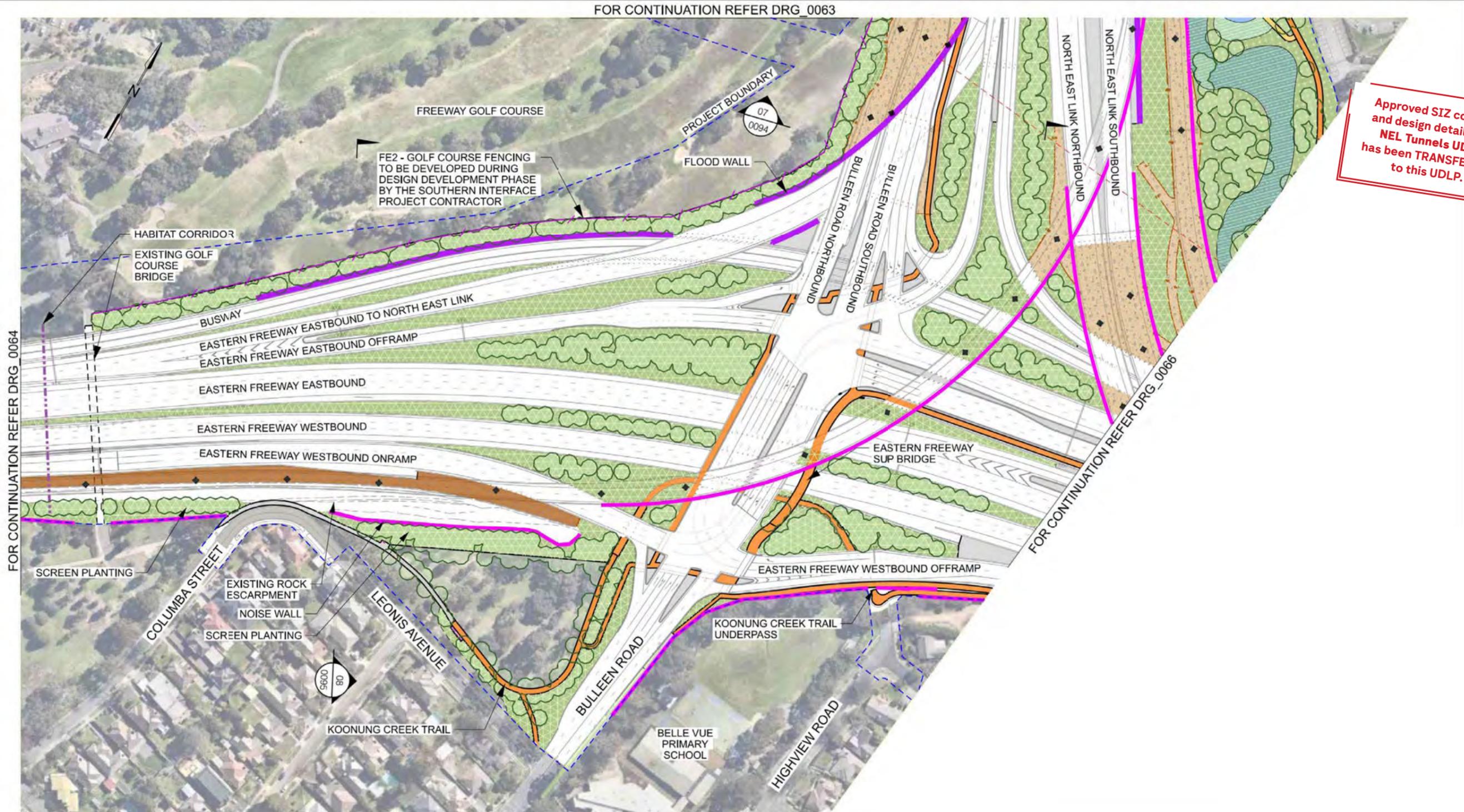
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FOR CONTINUATION REFER DRG_0066

LEGEND		FOR FURTHER DETAIL REFER MASTER LEGEND DRG-0003 AND DRG-0004	
	PROJECT BOUNDARY		INDICATIVE FUTURE TREE CANOPY
	NOISE WALL		SHRUB & GROUND COVER PLANTING
	FLOOD WALL		GRASS
	WATERWAY RETENTION PLANTING		SHARED USE PATH
	TIMBER BRIDGE		CONCRETE PAVING
	SOFTFALL		GRAVEL TREATMENT

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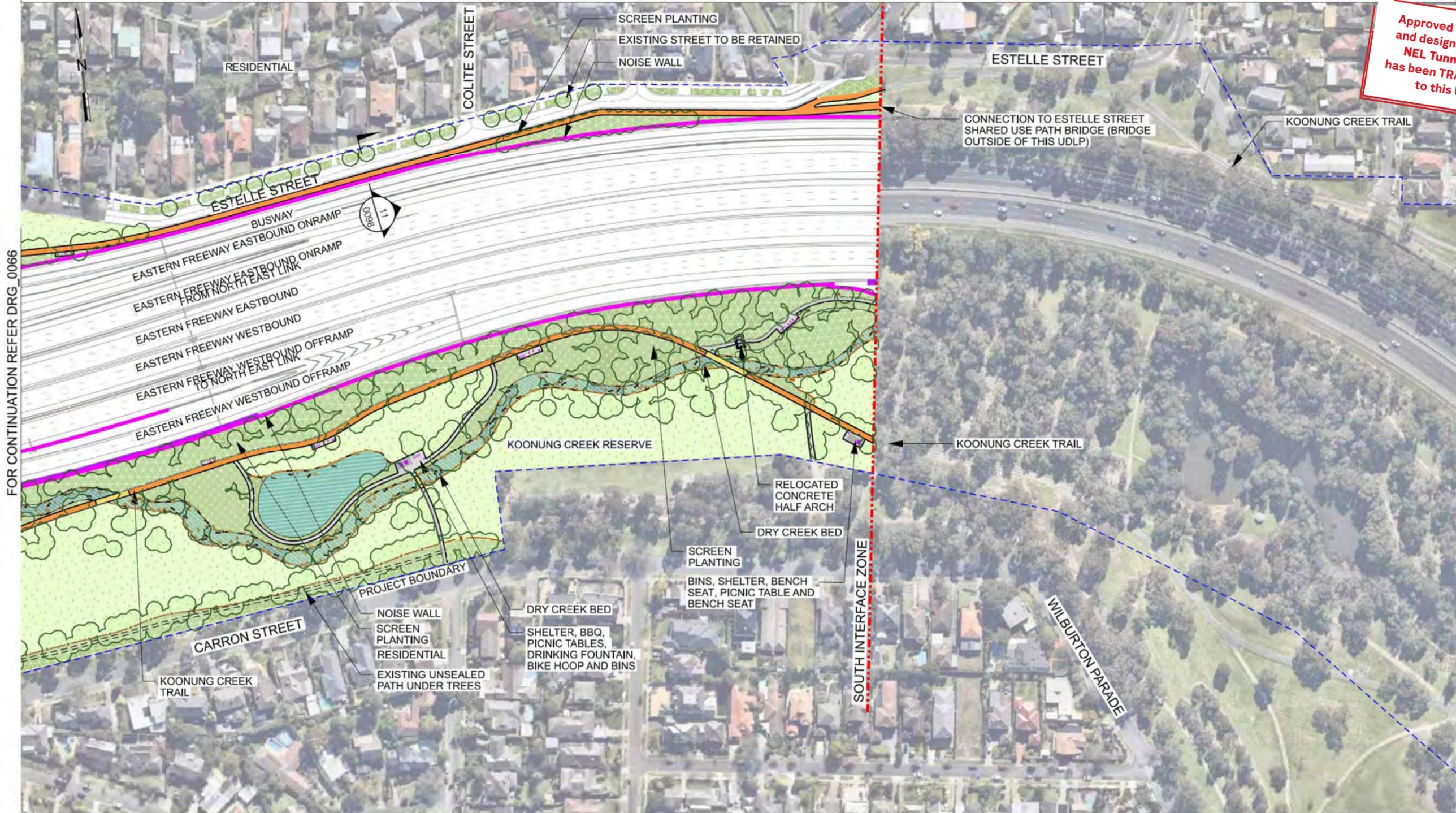
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LEGEND
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- TIMBER BRIDGE
- SOFTFALL



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SCALE 1:2000 @ A3
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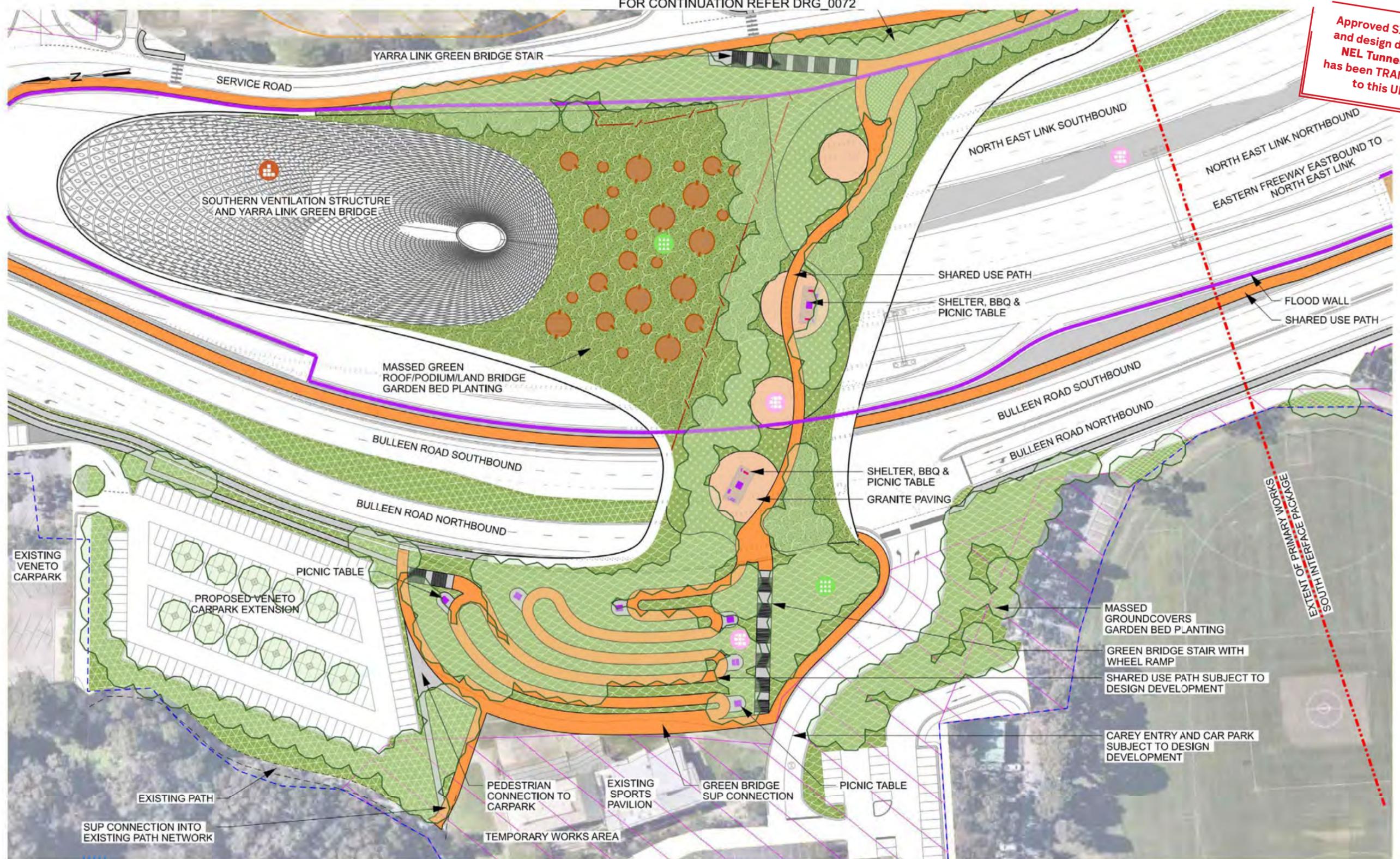
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06	FOR REVIEW	14.10.2022	DRAFTING	S.BANSEMER	14.10.2022	MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY VICTORIA'S BIG BUILD GPO BOX 4566, MELBOURNE, VICTORIA 3001 PHONE 1800 105 105			
05	FOR REVIEW	12.10.2022	CHECKED BY	S.BANSEMER	14.10.2022				
04	FOR REVIEW	01.09.2022	DESIGNED BY	B.L'ESTRANGE	14.10.2022				
03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	W.DODGIN	14.10.2022				
02	FOR REVIEW	23.06.2022	VERIFIED BY	D.LIM	14.10.2022				
01	PUBLIC EXHIBITION	02.05.2022	APPROVED BY	R.MAYLOR	17.10.2022				
REV.	DESCRIPTION	DATE	APPROVALS	APPROVALS	DATE	PROJECT CONTRACT.:	NELP DRAWING No.:	SUIT. CODE	REVISION
	REVISIONS						NEL-CNT-TRA-2990-ULS-DRG-0067		06

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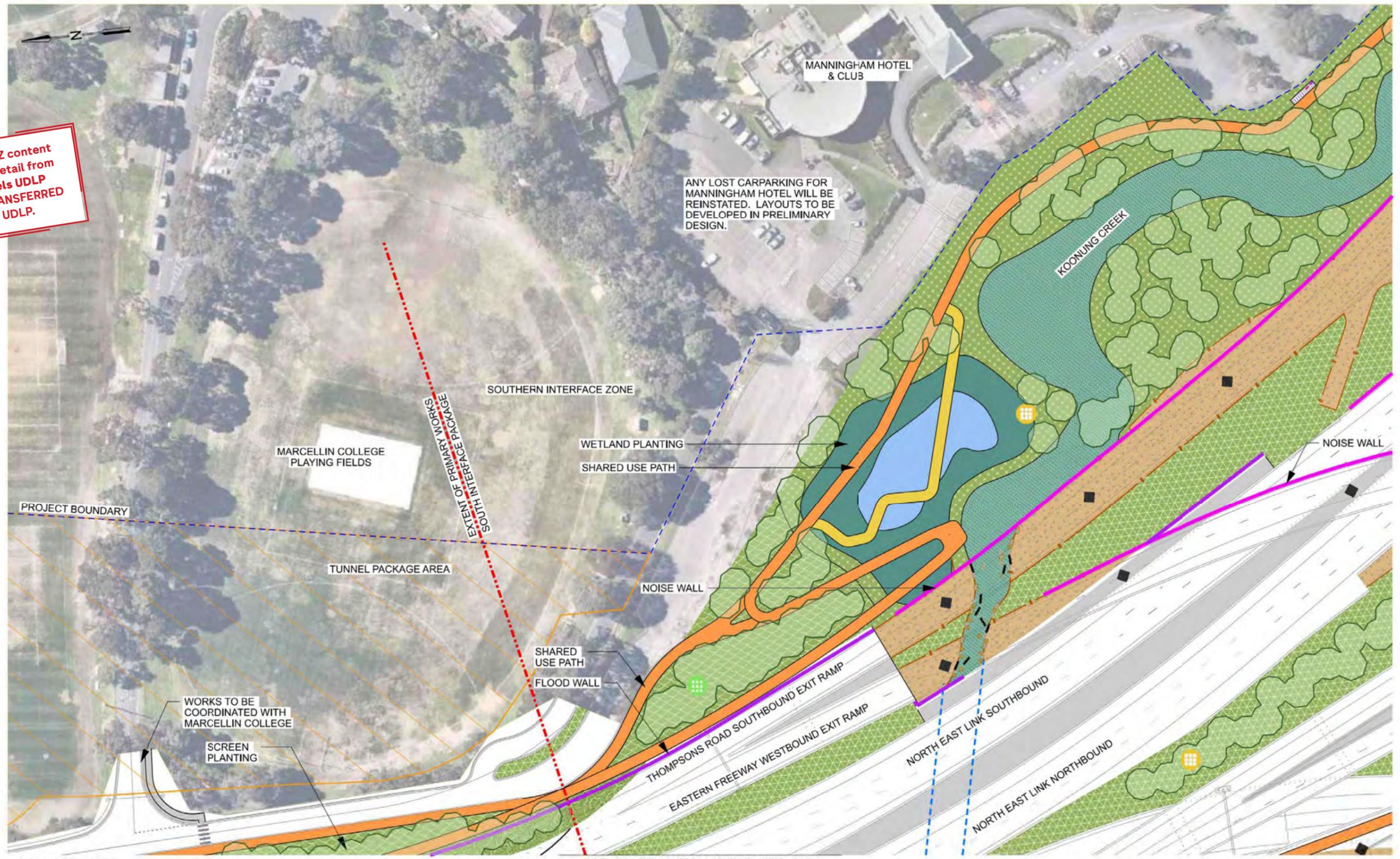
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05	FOR REVIEW	12.10.2022	CHECKED BY	S.BANSEMER	14.10.2022		
04	FOR REVIEW	01.09.2022	DESIGNED BY	B.J. ESTRANGE	14.10.2022		
03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	W.DODGIN	14.10.2022		
02	FOR REVIEW	23.06.2022	VERIFIED BY	D.JIM	14.10.2022		
01	PUBLIC EXHIBITION	02.05.2022	APPROVED BY	R.NAYLOR	17.10.2022		
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REVISIONS		APPROVALS		DRAWN: S.SHOROMIDIS SIZE: A3 SCALE: 1:1,000		SUIT. CODE 06	

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ANY LOST CARPARKING FOR MANNINGHAM HOTEL WILL BE REINSTATED. LAYOUTS TO BE DEVELOPED IN PRELIMINARY DESIGN.



SCALE 1:1,000 @ A3
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FOR CONTINUATION REFER DRG_0071

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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY	S.BANSEMER	14.10.2022	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SOUTHERN PORTAL SHEET 03			
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04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY	W.DODGIN	14.10.2022				
03	FOR REVIEW	10.08.2022	VERIFIED BY	D.LIM	14.10.2022				
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01	PUBLIC EXHIBITION	02.05.2022							
REV.	DESCRIPTION	DATE	APPROVALS	APPROVALS	DATE	PROJECT CONTRACT:	NEL DRAWING No.:	SUIT. CODE	REVISION
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SCALE 1:5000 @ A3
0 50 100 250m

LEGEND	
	PROJECT BOUNDARY
	INDICATIVE TREE CANOPY TO BE RETAINED
	INDICATIVE TREE CANOPY TO BE CONFIRMED TO BE REMOVED
	INDICATIVE EXTENT OF EXISTING TREE CANOPY REMOVAL

T:\Project\NEL\2019\10\2022\02 - NEL PP01 - Project\Work - JDLP Submission\DR-Drawing Set (1100-999)\NEL-CNT-TRA-2990-ULS-DRG-0081.dgn

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REV.	DESCRIPTION	DATE	APPROVED BY																																																
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APPROVED BY: R.NAYLOR	17.10.2022																																																		
<p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0081 SUIT. CODE: 06 REVISION: 06</p>				<p>CAD FILE:</p>		<p>SCALE: 1:5000</p>		<p>SIZE: A3</p>		<p>DRAWN: S.HOROMIDIS</p>																																									

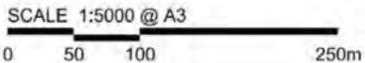
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LEGEND	
	PROJECT BOUNDARY
	INDICATIVE TREE CANOPY TO BE RETAINED
	INDICATIVE TREE CANOPY TO BE CONFIRMED TO BE REMOVED
	INDICATIVE EXTENT OF EXISTING TREE CANOPY REMOVAL

DOT DRAWING No.: REV.:

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MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY
VICTORIA'S BIG BUILD
 NORTH EAST LINK PROGRAM
 GPO BOX 4569, MELBOURNE, VICTORIA 3001
 PHONE 1800 105 105

NORTH EAST LINK TUNNELS UDLP
 ATTACHMENT 2
LANDSCAPE DESIGN
TREE RETENTION & REMOVAL PLAN SHEET 03

16/10/2022	8:48:20 PM	PROJECT CONTRACT.:	NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0082	SUIT. CODE	REVISION
					06

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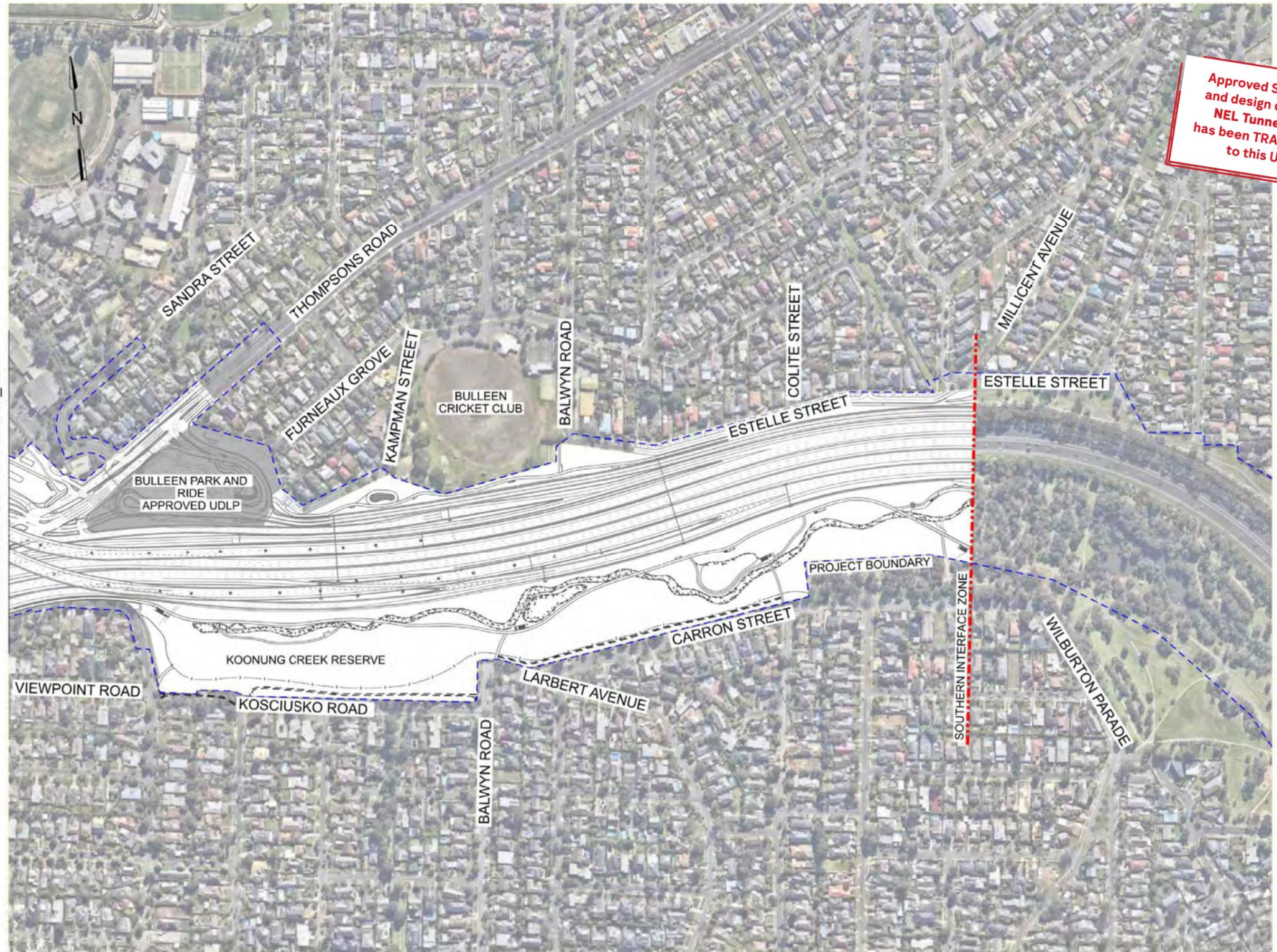
LEGEND

- PROJECT BOUNDARY
- [Hatched Box] TEMPORARY WORKS ZONE
- [Yellow Box] NO GO ZONE
- [Orange Box] INDICATIVE PROPOSED CONSTRUCTION COMPOUND

T:\Project\NEL\2019\10\2022\02 - NEL PP01 - Project\Work\JULP Submission\DR-Drawing Set (1100-999)\NEL-CNT-TRA-2990-ULS-DRG-0084.dgn

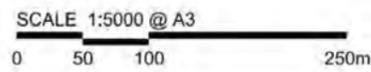
<p>© North East Link Program</p> <table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED BY</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>DRAFTING CHECKED BY S.BANSEMER</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>DESIGNED BY B.L'ESTRANGE</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>ENGINEERING CHECKED BY W.DODGIN</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>VERIFIED BY D.LIM</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>APPROVED BY R.NAYLOR</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> </tr> </tbody> </table>				REV.	DESCRIPTION	DATE	APPROVED BY	06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY S.BANSEMER	05	FOR REVIEW	12.10.2022	DESIGNED BY B.L'ESTRANGE	04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY W.DODGIN	03	FOR REVIEW	10.08.2022	VERIFIED BY D.LIM	02	FOR REVIEW	23.06.2022	APPROVED BY R.NAYLOR	01	PUBLIC EXHIBITION	02.05.2022		<p>Conditions Of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Restrictions of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 		<p>SPARK NORTH EAST LINK</p> <p>Tract Landscape Architects Urban Designers Town Planners</p>		<p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL - Sensitive</p>		<p>NORTH EAST LINK PROGRAM</p> <p>GPO BOX 4444 MELBOURNE VICTORIA 3001 PHONE 1800 110 110</p>		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN CONSTRUCTION COMPOUND PLAN SHEET 02</p>			
REV.	DESCRIPTION	DATE	APPROVED BY																																								
06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY S.BANSEMER																																								
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<p>REVISIONS</p>				<p>APPROVALS</p>		<p>DRAWN: S.JHOROMIDIS SIZE: A3</p>		<p>SCALE: 1:5000</p>		<p>CAD FILE:</p>		<p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0084 SUIT. CODE: 06</p>																															

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LEGEND	
	PROJECT BOUNDARY
	TEMPORARY WORKS ZONE
	NO GO ZONE
	INDICATIVE PROPOSED CONSTRUCTION COMPOUND

DOT DRAWING No.: _____ REV.: _____

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06	FOR REVIEW	14.10.2022	
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04	FOR REVIEW	01.09.2022	
03	FOR REVIEW	10.08.2022	
02	FOR REVIEW	23.06.2022	
01	PUBLIC EXHIBITION	02.05.2022	

NAME	DATE	APPROVALS
DRAFTING CHECKED BY: S.BANSEMER	14.10.2022	
DESIGNED BY: B.L'ESTRANGE	14.10.2022	
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VERIFIED BY: D.LIM	14.10.2022	
APPROVED BY: R.NAYLOR	17.10.2022	

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VICTORIA'S BIG BUILD

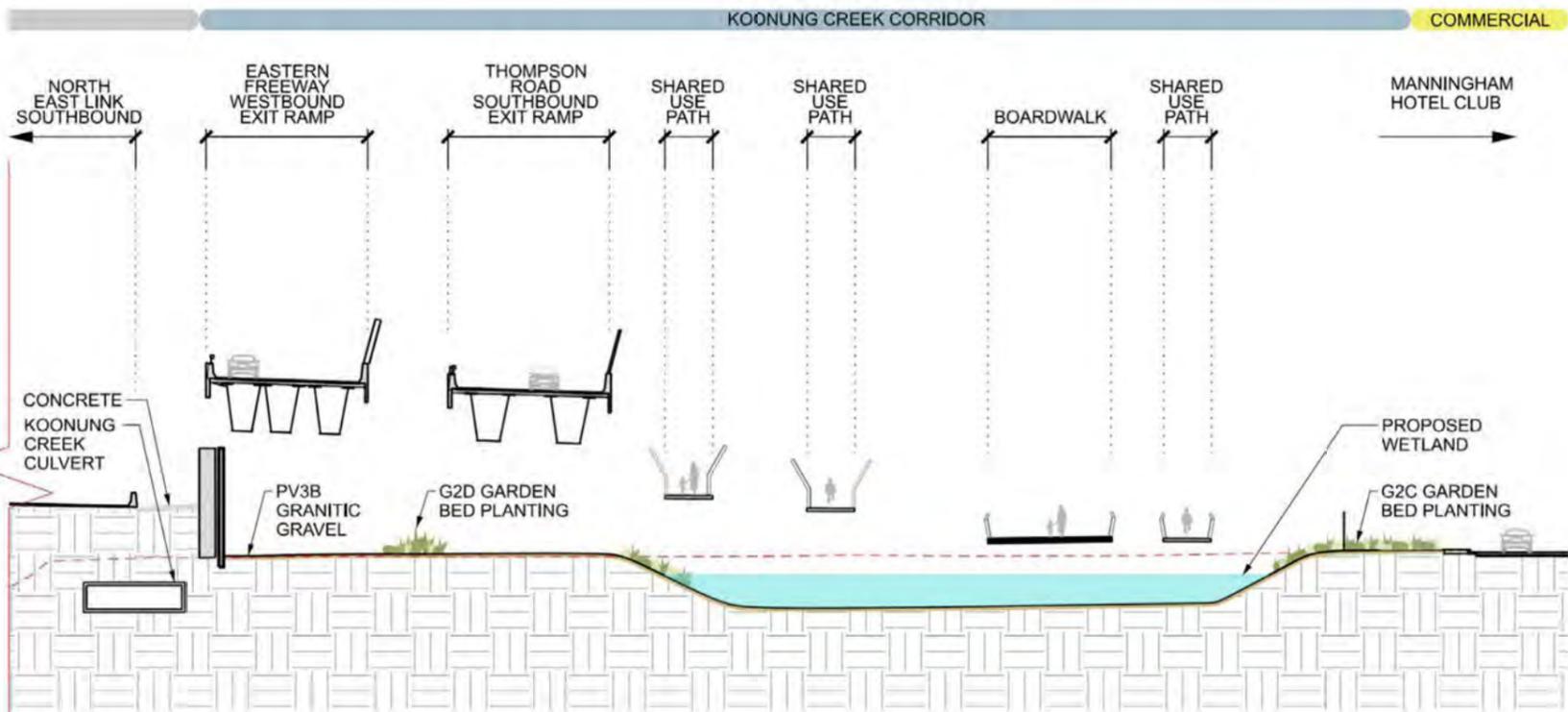
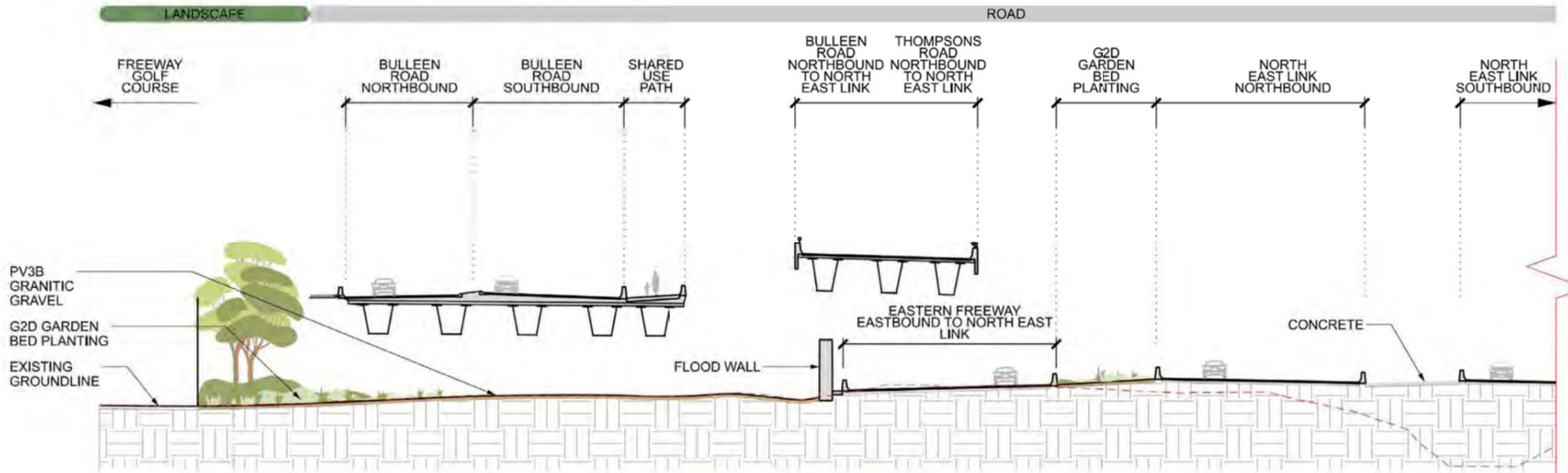
NORTH EAST LINK PROGRAM
 GPO BOX 4569, MELBOURNE, VICTORIA, 3001
 PHONE 1800 105 105

Protective Marking: **OFFICIAL: Sensitive**

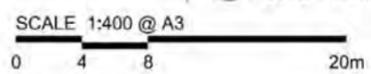
NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN CONSTRUCTION COMPOUND PLAN SHEET 03	
PROJECT CONTRACT: _____	NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0085 SUIT. CODE: _____ REVISION: 06

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6 NORTH EAST LINK WESTERN SHARED USE PATH
DRG - 0063
1:400



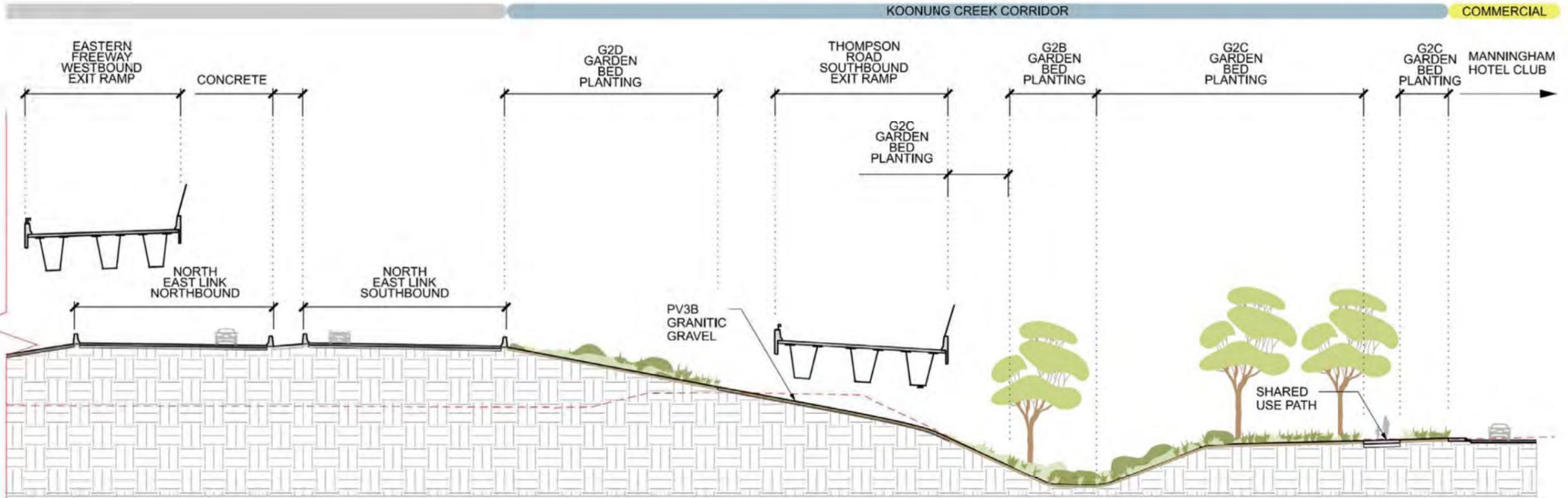
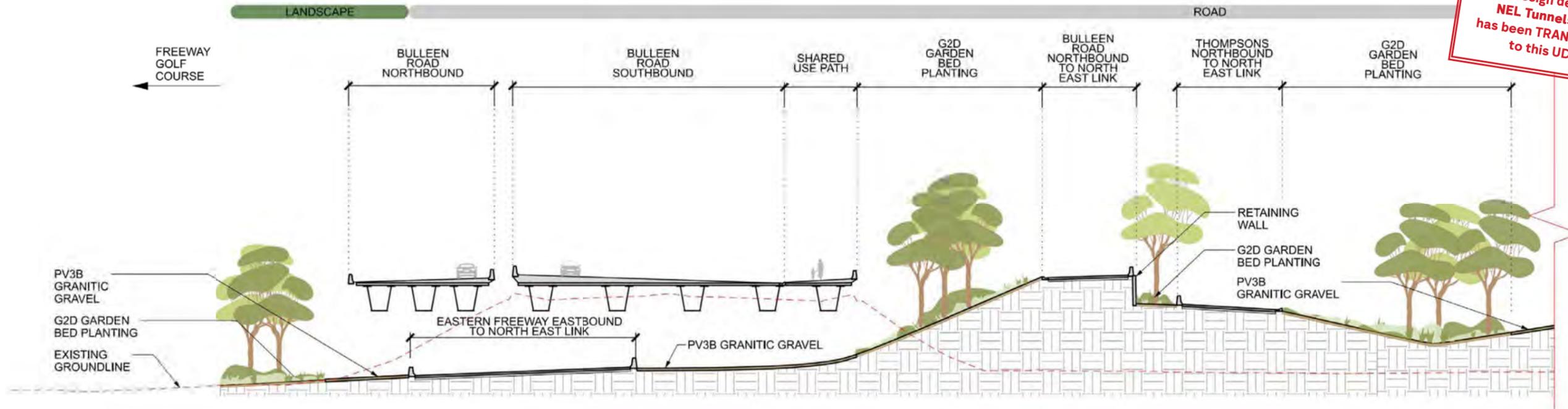
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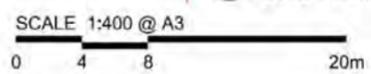
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PROJECT CONTRACT:	NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0093	SUIT. CODE 06	REV. :	

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7 NORTH EAST LINK KOONUNG CREEK DRG - 0065 1:400

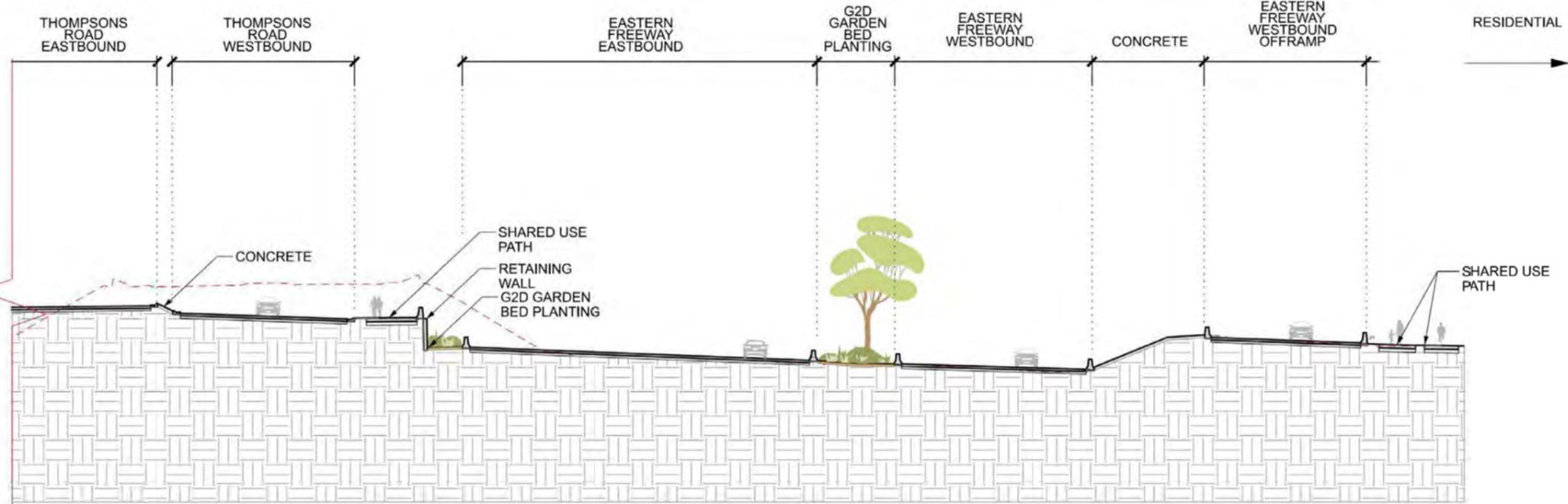
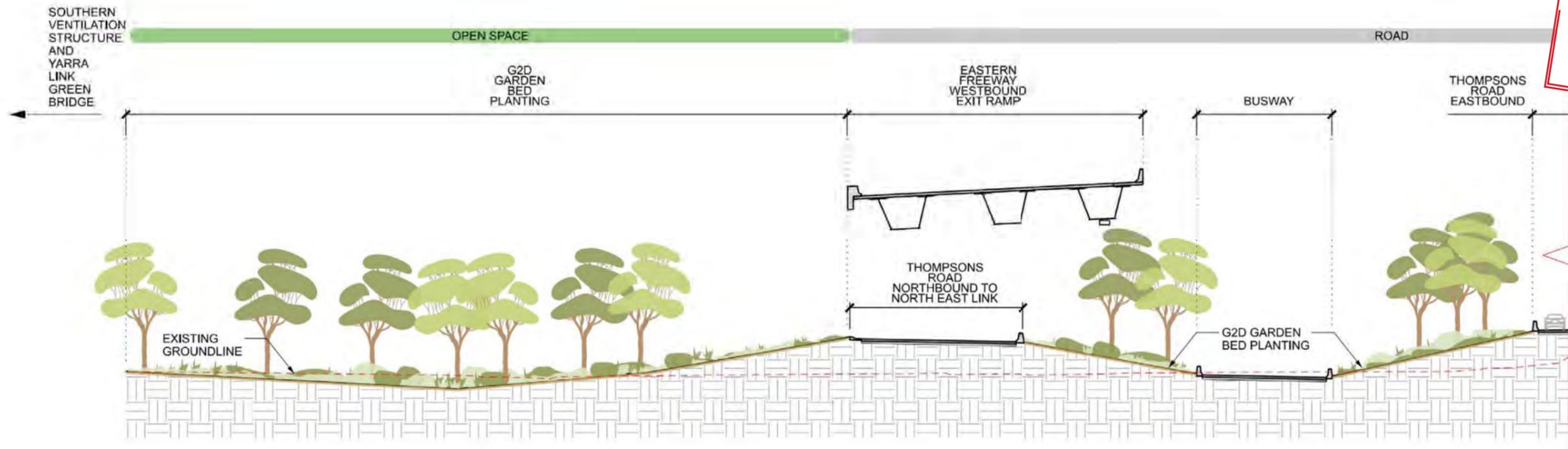


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06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY	S.BANSEMER	14.10.2022	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SITE SECTION SHEET 07			
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9 NORTH EAST LINK DRG - 0065

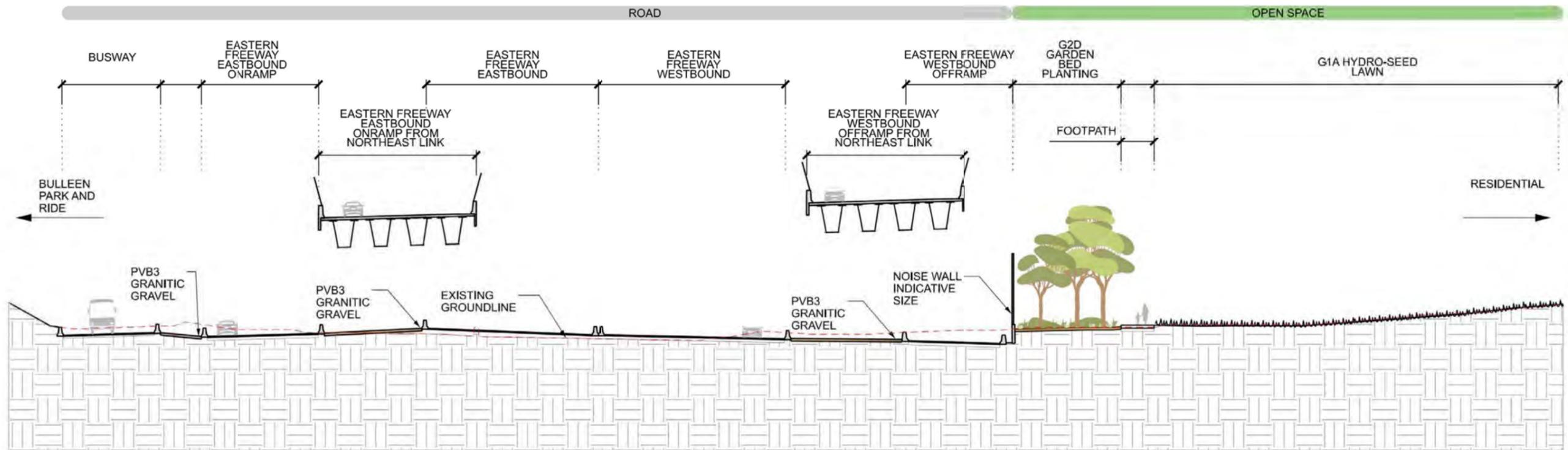
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<p>© North East Link Program</p> <table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED BY</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td></td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td></td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td></td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td></td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td></td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> </tr> </table>		REV.	DESCRIPTION	DATE	APPROVED BY	06	FOR REVIEW	14.10.2022		05	FOR REVIEW	12.10.2022		04	FOR REVIEW	01.09.2022		03	FOR REVIEW	10.08.2022		02	FOR REVIEW	23.06.2022		01	PUBLIC EXHIBITION	02.05.2022		<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>S.BANSEMER</td> <td>14.10.2022</td> </tr> <tr> <td>B.L'ESTRANGE</td> <td>14.10.2022</td> </tr> <tr> <td>W.DODGIN</td> <td>14.10.2022</td> </tr> <tr> <td>D.LIM</td> <td>14.10.2022</td> </tr> <tr> <td>R.NAYLOR</td> <td>17.10.2022</td> </tr> </table>	NAME	DATE	S.BANSEMER	14.10.2022	B.L'ESTRANGE	14.10.2022	W.DODGIN	14.10.2022	D.LIM	14.10.2022	R.NAYLOR	17.10.2022	<p>Conditions Of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Readers of this document:</p> <ul style="list-style-type: none"> - Are subject to obligations of confidentiality in relation to this document and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SITE SECTION SHEET 09</p>	<p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-TRA-2990-ULS-DRG-0096</p>	<p>SUIT. CODE: 06</p>
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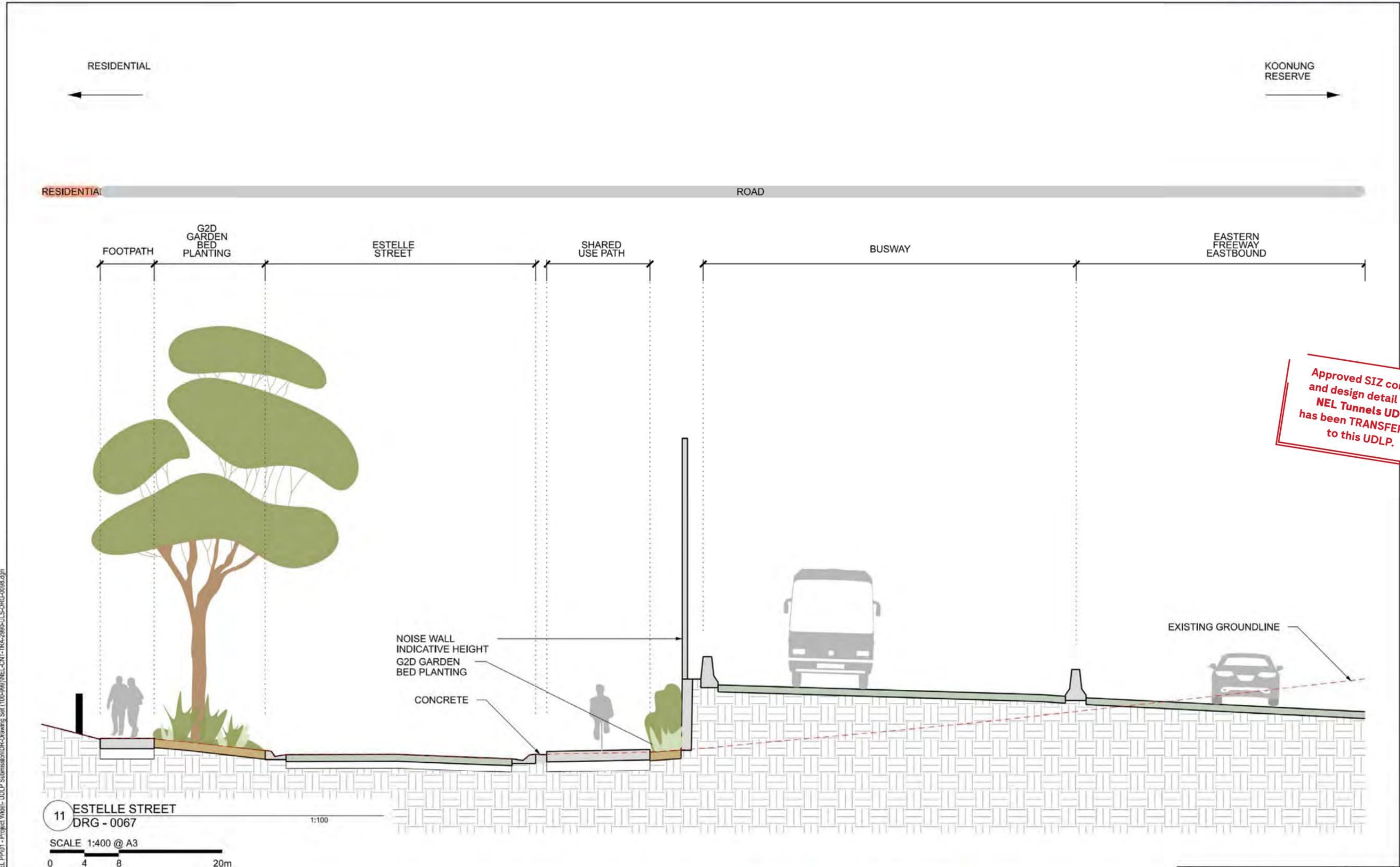
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DRG - 0066
1:400

SCALE 1:400 @ A3
0 4 8 20m

T:\Projects\NEL\2019\10\2022\02 - NEL PP01 - Project\Work\JULP Submissions\DR-Drawing Set\100-999\NEL-CNT-TRA-2990-ULS-DRG-0066.dgn

© North East Link Program 06 FOR REVIEW 14.10.2022 05 FOR REVIEW 12.10.2022 04 FOR REVIEW 01.09.2022 03 FOR REVIEW 10.08.2022 02 FOR REVIEW 23.06.2022 01 PUBLIC EXHIBITION 02.05.2022		NAME: S.BANSEMER DATE: 14.10.2022 DESIGNED BY: B.L'ESTRANGE DATE: 14.10.2022 ENGINEERING CHECKED BY: W.DODGIN DATE: 14.10.2022 VERIFIED BY: D.LIM DATE: 14.10.2022 APPROVED BY: R.NAYLOR DATE: 17.10.2022	Conditions Of Use This Document has been developed for the purposes of the North East Link Program. Restrictions of this document: - Are subject to obligations of confidentiality in relation to this document and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.	SYMAP NORTH EAST LINK Landscape Architects Urban Designers Town Planners	MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY VICTORIA'S BIG BUILD NORTH EAST LINK PROGRAM GRO BOX 4588 MELBOURNE, VICTORIA 3001 PHONE 1800 100 100	DOT DRAWING No. : REV. :	NORTH EAST LINK TUNNELS UDLP ATTACHMENT 2 LANDSCAPE DESIGN SITE SECTION SHEET 10	PROJECT CONTRACT : NELP DRAWING No. : NEL-CNT-TRA-2990-ULS-DRG-0097	SUIT. CODE : REVISION : 06
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11 ESTELLE STREET
DRG - 0067
SCALE 1:400 @ A3
0 4 8 20m

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Attachment 4: Urban Design Overshadowing Assessment

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NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN OVERSHADOWING ASSESSMENT



TABLE OF CONTENTS

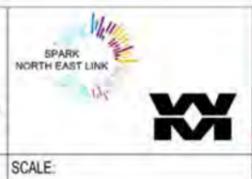
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NEL-CNT-WMI-2990-UUD-DRG-0400	UDLP OVERSHADOWING DIAGRAM COVER SHEET
NEL-CNT-WMI-2990-UUD-DRG-0401	UDLP OVERSHADOWING DIAGRAM OVERALL SITE PLAN
NEL-CNT-WMI-2990-UUD-DRG-0402	UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL
NEL-CNT-WMI-2990-UUD-DRG-0403	UDLP OVERSHADOWING DIAGRAM NORTHERN VENTILATION STRUCTURE / LP RD PORTAL
NEL-CNT-WMI-2990-UUD-DRG-0404	UDLP OVERSHADOWING DIAGRAM LOWER PLENTY SUBSTATION / IUK (EEL) BRIDGE
NEL-CNT-WMI-2990-UUD-DRG-0405	UDLP OVERSHADOWING DIAGRAM IUK (EEL) BRIDGE ANALYSIS
NEL-CNT-WMI-2990-UUD-DRG-0406	UDLP OVERLOOKING DIAGRAM IUK (EEL) BRIDGE ANALYSIS
NEL-CNT-WMI-2990-UUD-DRG-0407	UDLP OVERSHADOWING DIAGRAM MANNINGHAM INTERCHANGE
NEL-CNT-WMI-2990-UUD-DRG-0408	UDLP OVERSHADOWING DIAGRAM MOTORWAY CONTROL CENTRE
NEL-CNT-WMI-2990-UUD-DRG-0409	UDLP OVERSHADOWING DIAGRAM SOUTHERN VENTILATION STRUCTURE
NEL-CNT-WMI-2990-UUD-DRG-0410	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1
NEL-CNT-WMI-2990-UUD-DRG-0411	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2
NEL-CNT-WMI-2990-UUD-DRG-0412	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 3
NEL-CNT-WMI-2990-UUD-DRG-0413	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 4
NEL-CNT-WMI-2990-UUD-DRG-0414	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5
NEL-CNT-WMI-2990-UUD-DRG-0415	UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL ANALYSIS
NEL-CNT-WMI-2990-UUD-DRG-0416	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 1
NEL-CNT-WMI-2990-UUD-DRG-0417	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2
NEL-CNT-WMI-2990-UUD-DRG-0418	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 3
NEL-CNT-WMI-2990-UUD-DRG-0419	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 4
NEL-CNT-WMI-2990-UUD-DRG-0420	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2 ANALYSIS
NEL-CNT-WMI-2990-UUD-DRG-0421	UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5 ANALYSIS

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01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD

NAME	DATE
E. GRIFFITH	14.10.2022
M. KEDDELL	14.10.2022
R. MARSH	14.10.2022
R. WOOD	14.10.2022
R. NAYLOR	14.10.2022

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VICTORIA'S BIG BUILD
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 MELBOURNE
 VICTORIA 3001
 PHONE 180 100 000

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NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM COVER SHEET			
PROJECT CONTRACT:	NELP DRAWING No.:	SUIT. CODE	REVISION
CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt	NEL-CNT-WMI-2990-UUD-DRG-0400		06

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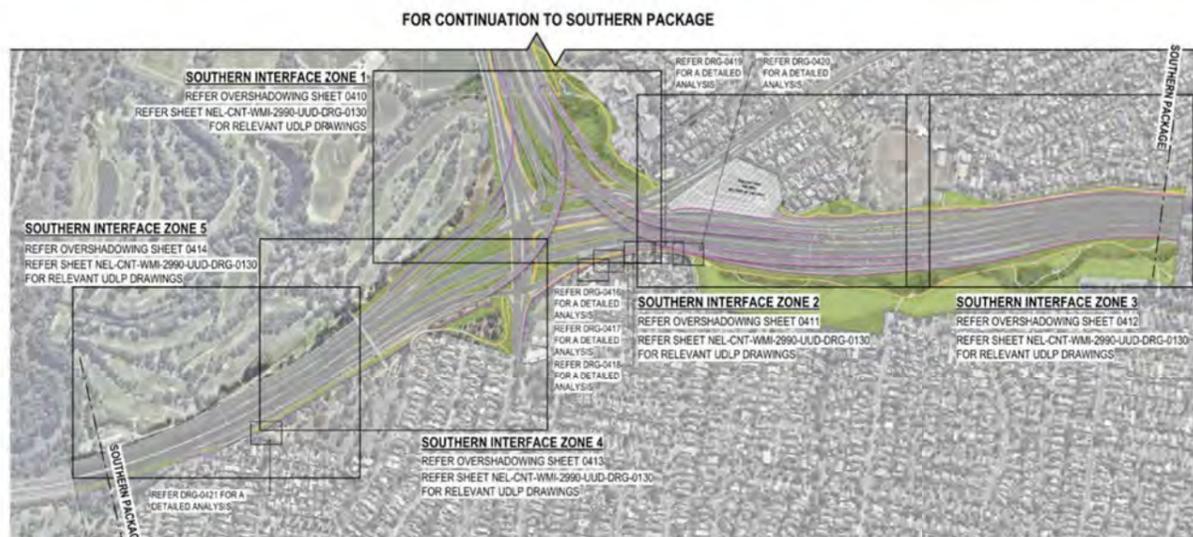
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NORTHERN PACKAGE SITE PLAN
SCALE 1 : 7000



SOUTHERN PACKAGE SITE PLAN
SCALE 1 : 7000



SOUTHERN INTERFACE SITE PLAN
SCALE 1 : 7000

SHADOW AND OVERLOOKING DIAGRAMS AND ANALYSIS

THE FOLLOWING SHADOW AND OVERLOOKING DIAGRAMS DEMONSTRATE IN-PRINCIPAL COMPLIANCE WITH THE NORTH EAST LINK PROJECT ENVIRONMENTAL MANAGEMENT FRAMEWORK DOCUMENT. THE DIAGRAMS CONSIDER THE FOLLOWING PERFORMANCE REQUIREMENTS AND REGULATIONS:

REQUIREMENT LP4 | REGULATION EMF, EPR LP4
MINIMISE OVERSHADOWING FROM NOISE WALLS AND ELEVATED STRUCTURES AND OVERLOOKING FROM ELEVATED STRUCTURES.

TYPICALLY ELEVATED STRUCTURES WILL CASTING SHADOWS BACK ONTO NEW SITE ELEMENTS OR WITHIN THE PROJECT SITE BOUNDARIES DUE TO A COMBINATION OF NATURAL TOPOGRAPHY, ORIENTATION AND PARTIAL SUBMERSION OF ARCHITECTURAL ELEMENTS. THE MAJORITY OF ELEMENTS ARE LOCATED OUTSIDE OF THE FIFTEEN (15) METRE AREA OF CONSIDERATION FOR OVERLOOKING. DETAIL PLANS HAVE BEEN PROVIDED FOR THE EXCEPTIONS.

REQUIREMENT LV1 | REGULATION EMF, EPR LV1
DESIGN TO BE IN ACCORDANCE WITH THE URBAN DESIGN STRATEGY.

THE PACKAGES HAVE BEEN DESIGNED GENERALLY IN ACCORDANCE WITH THE URBAN DESIGN STRATEGY, INCLUDING REQUIREMENTS REGARDING SHADOWS AND OVERLOOKING REGULATIONS. A MORE DETAILED ASSESSMENT OF THESE COMPLIANCES IS INDICATED IN THE URBAN DESIGN REPORT.

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				Protective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt		PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0401	
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SOUTHERN VENTILATION STRUCTURE



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADOWING OVER NON-SENSITIVE URBAN ELEMENTS. MINOR SHADOWING OVER OLD CAREY CRICKET CLUB AND FREWAY GOLD COURSE.

OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO NEW SUP TO EAST OF PORTAL.

OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.

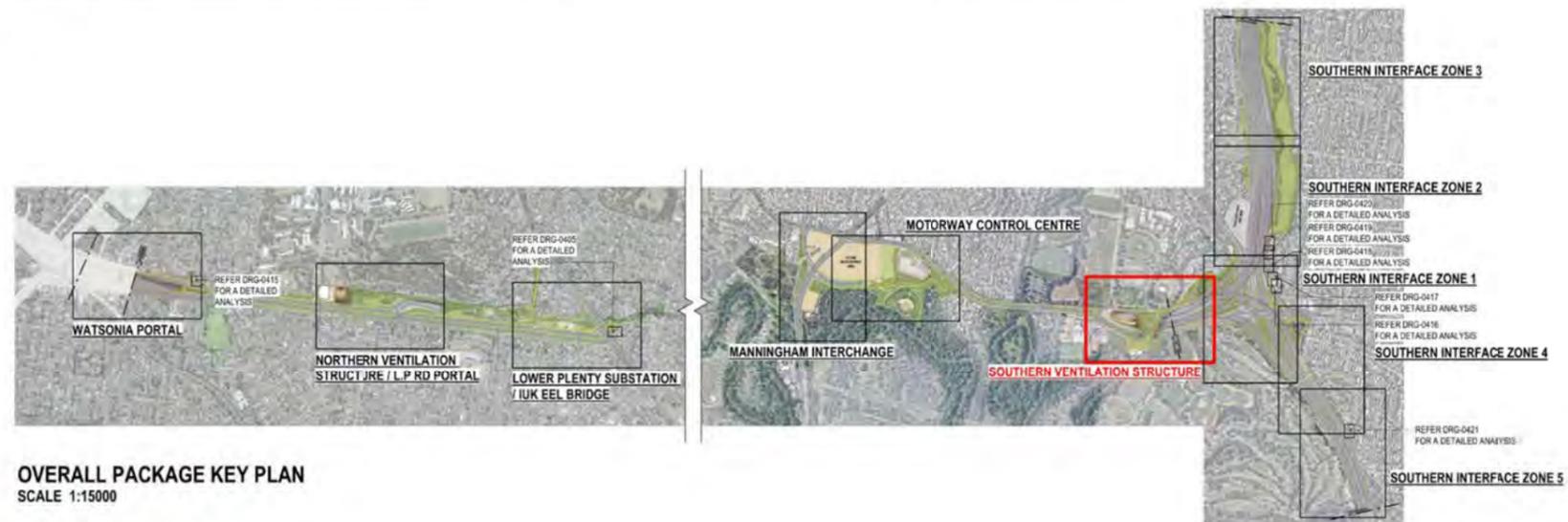


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN VENTILATION STRUCTURE
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. SHADING (LESS THAN 5%) TO MARCELLIN SPORTS FIELD TO EAST OF PORTAL.

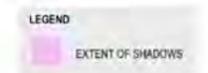
OVERLOOKING ANALYSIS
OVERLOOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NON-SENSITIVE AREAS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

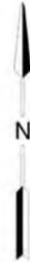
THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT PHASE WHICH WILL INCLUDE:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



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SOUTHERN INTERFACE ZONE 1



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO VIEWPOINT ROAD AND MOUNTAIN VIEW ROAD PROPERTIES. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE TYPICALLY WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO 1 VIEWPOINT AND 162 MOUNTAIN VIEW ROADS. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.

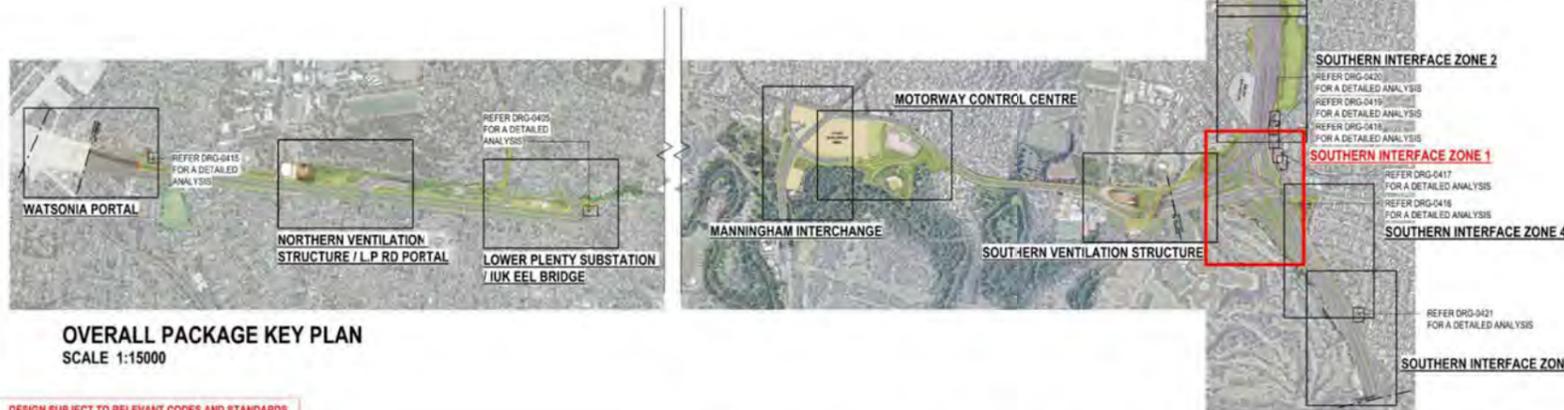


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE GENERALLY WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO VIEWPOINT ROAD PROPERTIES. LOCALISED MITIGATION SHOULD BE ACHIEVED THROUGH REDUCED WALL HEIGHTS WHERE POSSIBLE AND TRANSPARENT MATERIALS.

OVERLOOKING ANALYSIS
NEL INBOUND AND WEST APPROACH RAMP POSE POSSIBLE OVERLOOKING INTO 154 - 158 MOUNTAIN VIEW ROAD. THESE VIEWS ARE MITIGATED BY SPEED OF VEHICLES AND BRIDGE BARRIERS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS SUCH AS 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:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.

REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND
EXTENT OF SHADOWS

C:\Users\j\Documents\NEL UDLP\Attachment 4_siz\TWC.rvt

© North East Link Program			NAME		DATE	Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.		DOT DRAWING No.: NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1	
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022			PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0410	SUIT. CODE REVISION 06
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022				
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022				
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02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022				
01	PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022	DRAWN: J. HO SIZE: A1 SCALE: As indicated CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt			

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

SOUTHERN INTERFACE ZONE 2



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMP, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE AND MOUNTAIN VIEW ROAD. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO 150 & 152 MOUNTAIN VIEW ROAD. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION THROUGH USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP'S OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMP, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE AND MOUNTAIN VIEW ROAD.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP'S OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.

SOUTHERN INTERFACE ZONE 2
REQ. LP4 | REG. EMP, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OVER KOONUNG CREEK/ KOONUNG RESERVE. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO 162 MOUNTAIN VIEW ROAD. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION THROUGH USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMP'S OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000



OVERSHADOWING DISCLAIMER NOTE:
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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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LEGEND
EXTENT OF SHADOWS

C:\Users\Documents\NEL_UDLP\Attachment 4_siz\NYC.rvt

© North East Link Program		NAME		DATE	Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.		NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2	DOT DRAWING No.:	Rev.:
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH				14.10.2022	
05	FOR REVIEW	12.10.2022	CHECKED BY	M. KEDDELL	14.10.2022				
04	FOR REVIEW	01.09.2022	DESIGNED BY	R. MARSH	14.10.2022				
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02	FOR REVIEW	23.06.2022	VERIFIED BY	R. NAYLOR	14.10.2022				
01	PUBLIC EXHIBITION	02.05.2022	APPROVED						
REV	DESCRIPTION	DATE	APPROVALS		DRAWN: J. HO	SIZE: A1	SCALE: As indicated	PROJECT CONTRACT: NEL-CNT-WMI-2990-UUD-DRG-0411	SUIT. CODE: 06
REVISIONS		APPROVALS		DRAWN: J. HO	SIZE: A1	SCALE: As indicated	CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt	NELP DRAWING No.:	REVISION:

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

SOUTHERN INTERFACE ZONE 3



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4
SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE.
OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOONUNG CREEK RESERVE.



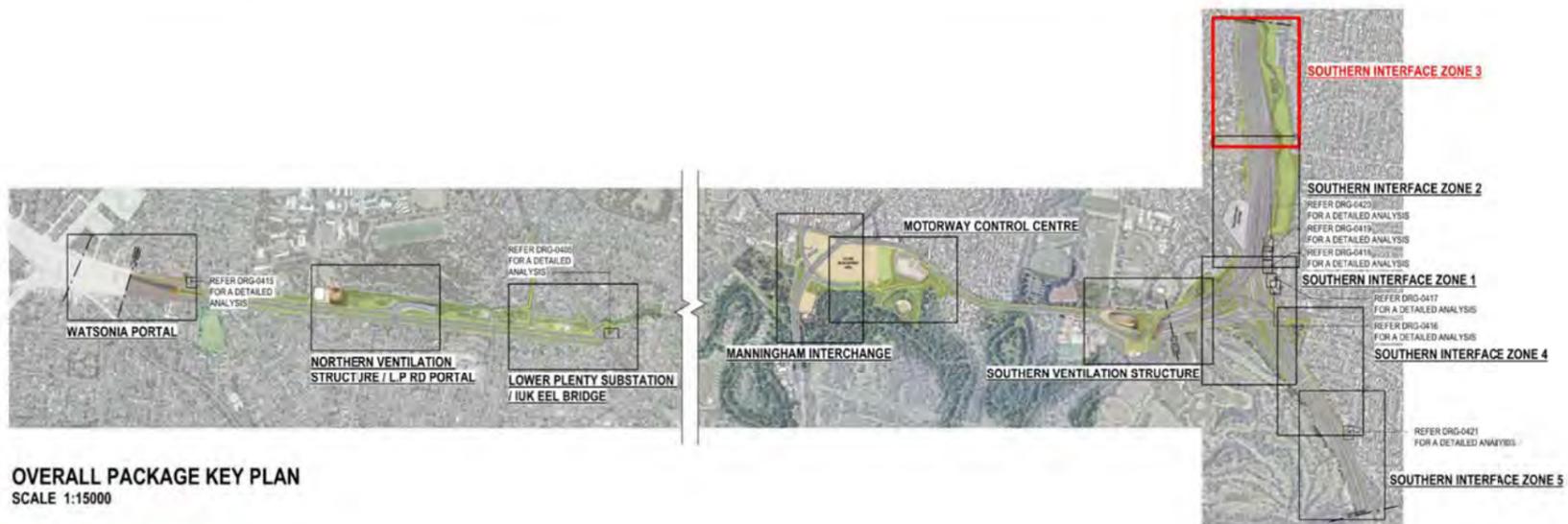
SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4
SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADOWING OVER KOONUNG CREEK RESERVE.
OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOONUNG CREEK RESERVE.



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 3
REQ. LP4 | REG. EMF, EPR LP4
SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. SOME SHADOWING OVER KOONUNG CREEK RESERVE.
OVERLOOKING ANALYSIS
MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOONUNG CREEK RESERVE.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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LEGEND
EXTENT OF SHADOWS

C:\Users\j\Documents\NEL_UDLP\Attachment 4_siz\NYC.rvt

<p>© North East Link Program</p> <table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVALS</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>DRAFTING CHECKED BY: E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>DESIGNED BY: M. KEDDELL</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>ENGINEERING CHECKED BY: R. MARSH</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>VERIFIED BY: R. WOOD</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>APPROVED: R. NAYLOR</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> </tr> </table>			REV	DESCRIPTION	DATE	APPROVALS	06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY: E. GRIFFITH	05	FOR REVIEW	12.10.2022	DESIGNED BY: M. KEDDELL	04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY: R. MARSH	03	FOR REVIEW	10.08.2022	VERIFIED BY: R. WOOD	02	FOR REVIEW	23.06.2022	APPROVED: R. NAYLOR	01	PUBLIC EXHIBITION	02.05.2022		<p>Conditions of Use This document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.</p>		<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt</p>		<p>NORTH EAST LINK PROGRAM</p> <p>UDLP 0131 - WMI-2990-UUD-DRG-0412</p> <p>PROJECT CONTRACT: NEL-CNT-WMI-2990-UUD-DRG-0412</p>		<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 3</p>		<p>DOT DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0412</p> <p>SUIT. CODE: 06</p> <p>REVISION: 06</p>	
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SOUTHERN INTERFACE ZONE 4



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500



SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING OF EXISTING KOONUNG CREEK TRAIL AT CORNER OF LEONIS AVENUE AND COLUMBA STREET.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

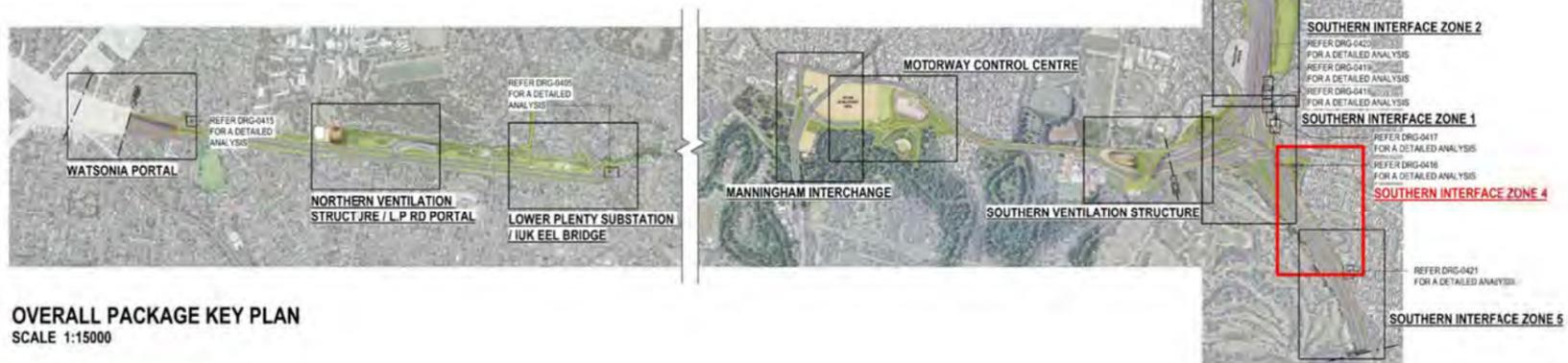
SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.

SOUTHERN INTERFACE ZONE 4
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MAJORITY OF SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS. MINIMAL SHADOWING TO EXISTING KOONUNG CREEK TRAIL APPROACHING CORNER OF LEONIS AVENUE AND COLUMBA STREET. LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

OVERLOOKING ANALYSIS
NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TOPOGRAPHY.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

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ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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LEGEND
EXTENT OF SHADOWS

© North East Link Program				DOT DRAWING No.:		Rev.:	
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022	Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.	
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REVISIONS DESCRIPTION		APPROVALS NAME DATE		PROJECT CONTRACT: NEL-CNT-WMI-2990-UUD-DRG-0413 NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0413 SUIT. CODE: REVISION: 06		NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 4	

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

SOUTHERN INTERFACE ZONE 5



SEPTEMBER 22nd, 9AM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

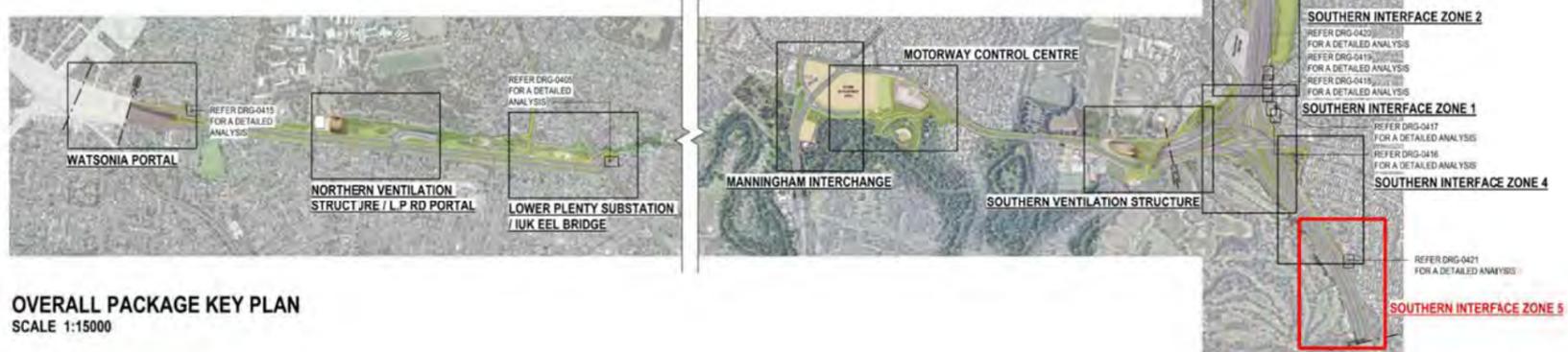


SEPTEMBER 22nd, 3PM
SCALE 1 : 2500

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST OVER KOONUNG CREEK TRAIL APPROACHING ORION STREET. HIGH-LEVEL ANALYSIS INDICATES MINIMAL SHADOWING TO REAR FENCE OF 27 & 29 ORION STREET. FURTHER ASSESSMENT FOLLOWING DETAILED LAND SURVEY AND MITIGATION IF REQUIRED THROUGH USE OF SEMI-TRANSPARENT BARRIER TYPE WILL OFFSET THIS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

OVERSHADOWING DISCLAIMER NOTE:
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DESIGN NOTE:
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LEGEND
EXTENT OF SHADOWS

C:\Users\Documents\NE_LUDP\Attachment 4_sgt\NYC.rvt

<p>© North East Link Program</p> <table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>M. KEDDELL</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>R. MARSH</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>R. WOOD</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>R. WOOD</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td>R. NAYLOR</td> </tr> </table>		REV	DESCRIPTION	DATE	APPROVED	06	FOR REVIEW	14.10.2022	E. GRIFFITH	05	FOR REVIEW	12.10.2022	M. KEDDELL	04	FOR REVIEW	01.09.2022	R. MARSH	03	FOR REVIEW	10.08.2022	R. WOOD	02	FOR REVIEW	23.06.2022	R. WOOD	01	PUBLIC EXHIBITION	02.05.2022	R. NAYLOR	<p>Conditions of Use This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.</p>	<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL: Sensitive</p>	<p>NORTH EAST LINK PROGRAM</p> <p>PROJECT CONTRACT: NEL-CNT-WMI-2990-UUD-DRG-0414</p>	<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5</p>	<p>DOT DRAWING No.: Rev:</p> <p>SUIT. CODE: 06</p>
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SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 1

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.



SEPTEMBER 22nd, 9AM

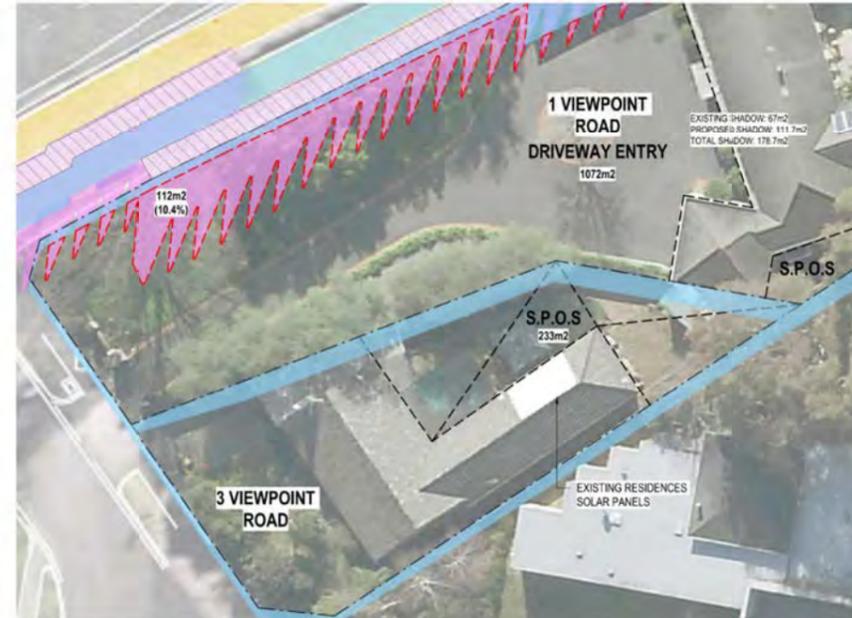
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SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACRYLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

OVERSHADOWING DISCLAIMER NOTE:
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SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

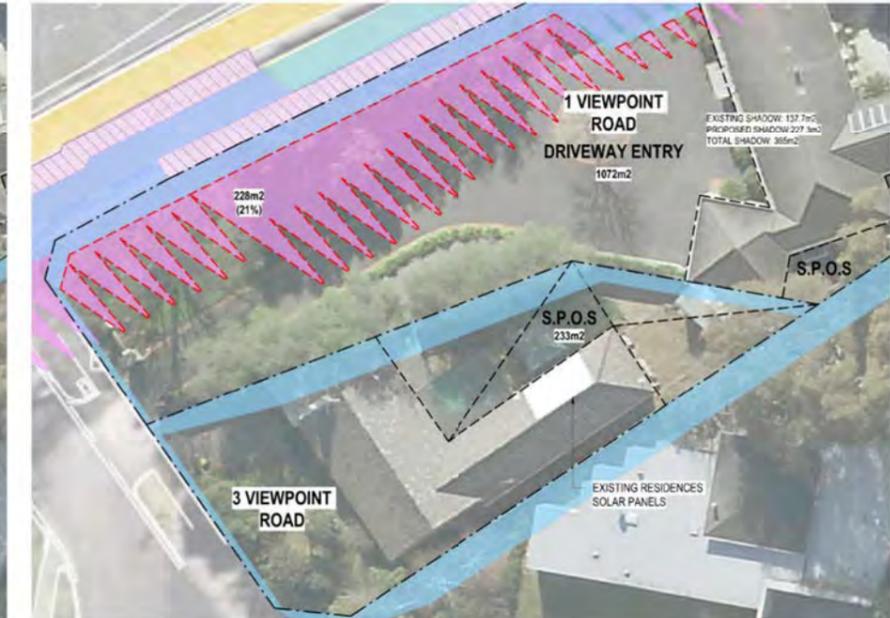


SEPTEMBER 22nd, 12PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

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SEPTEMBER 22nd, 3PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

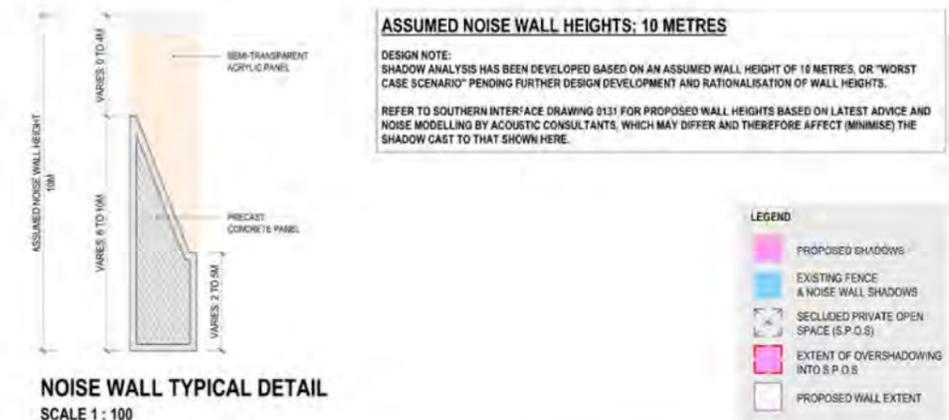
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OVERALL PACKAGE KEY PLAN

SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS



NOISE WALL TYPICAL DETAIL
SCALE 1 : 100

ASSUMED NOISE WALL HEIGHTS: 10 METRES
DESIGN NOTE: SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.
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- LEGEND**
- PROPOSED SHADOWS
 - EXISTING FENCE & NOISE WALL SHADOWS
 - SECLUDED PRIVATE OPEN SPACE (S.P.O.S.)
 - EXTENT OF OVERSHADOWING INTO S.P.O.S.
 - PROPOSED WALL EXTENT

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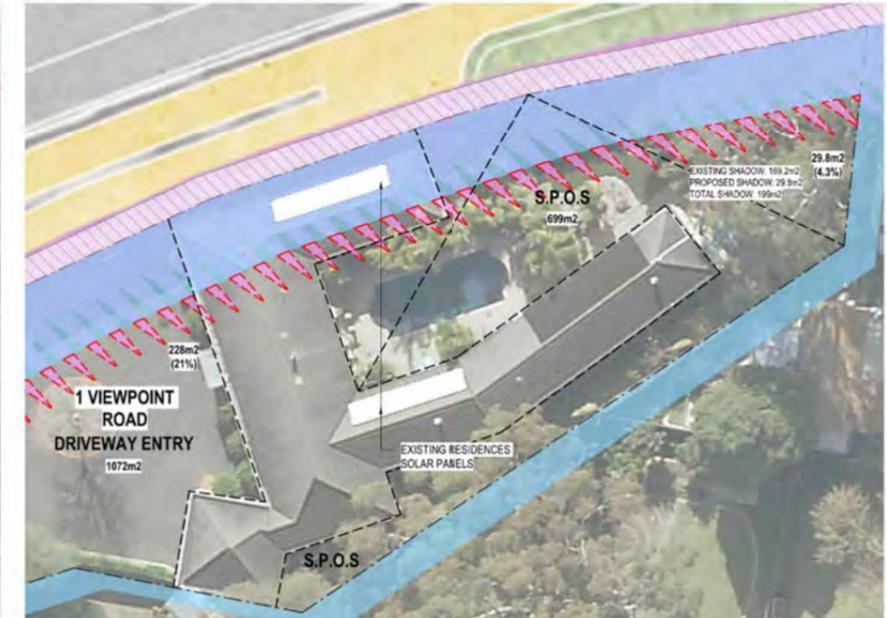
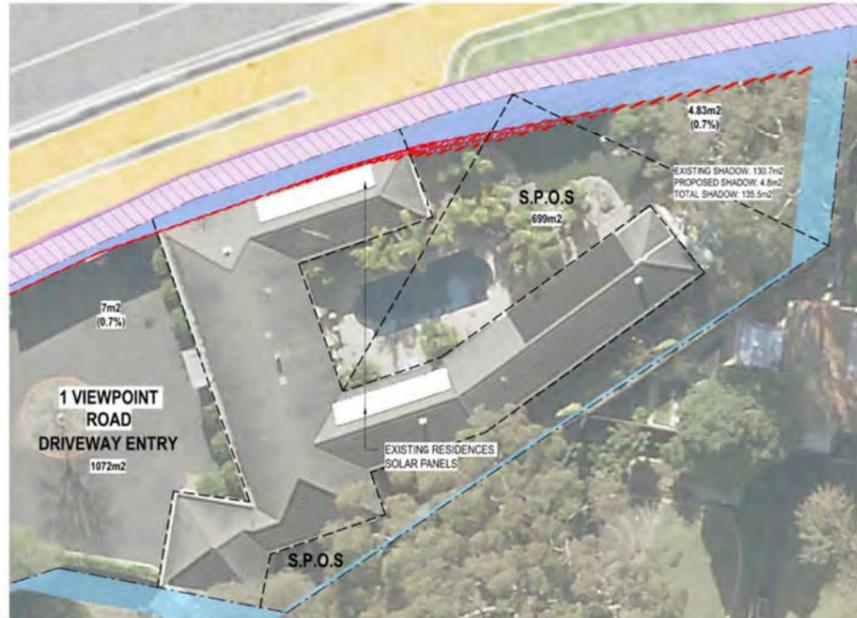
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REV	REVISIONS							DRAWN: J. HO SIZE: A1 SCALE: As indicated PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0416 SUIT. CODE: 06 REVISION: 06

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.

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SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
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OVERLOOKING ANALYSIS
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SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

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SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

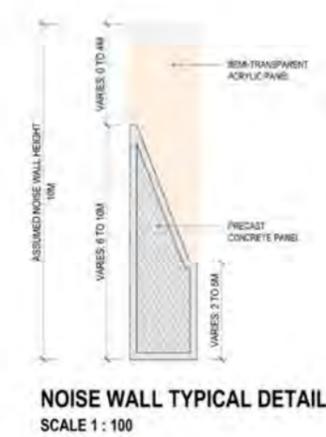
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OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS



ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
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- LEGEND**
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 - EXTENT OF OVERSHADOWING INTO S.P.O.S
 - PROPOSED WALL EXTENT

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<p>© North East Link Program</p> <table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> <th>APPROVALS</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>DRAFTING CHECKED BY: E. GRIFFITH</td> <td>14.10.2022</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>DESIGNED BY: M. KEDDELL</td> <td>14.10.2022</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>ENGINEERING CHECKED BY: R. MARSH</td> <td>14.10.2022</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>VERIFIED BY: R. WOOD</td> <td>14.10.2022</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>APPROVED: R. NAYLOR</td> <td>14.10.2022</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td></td> <td></td> </tr> </table>		REV	DESCRIPTION	DATE	APPROVED	APPROVALS	06	FOR REVIEW	14.10.2022	DRAFTING CHECKED BY: E. GRIFFITH	14.10.2022	05	FOR REVIEW	12.10.2022	DESIGNED BY: M. KEDDELL	14.10.2022	04	FOR REVIEW	01.09.2022	ENGINEERING CHECKED BY: R. MARSH	14.10.2022	03	FOR REVIEW	10.08.2022	VERIFIED BY: R. WOOD	14.10.2022	02	FOR REVIEW	23.06.2022	APPROVED: R. NAYLOR	14.10.2022	01	PUBLIC EXHIBITION	02.05.2022			<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 	<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>NORTH EAST LINK PROGRAM</p> <p>GPB 8218 4288 MELBOURNE VICTORIA 3001 PHONE 955 155 155</p>	<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2</p>
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SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 3

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SEPTEMBER 22nd, 9AM

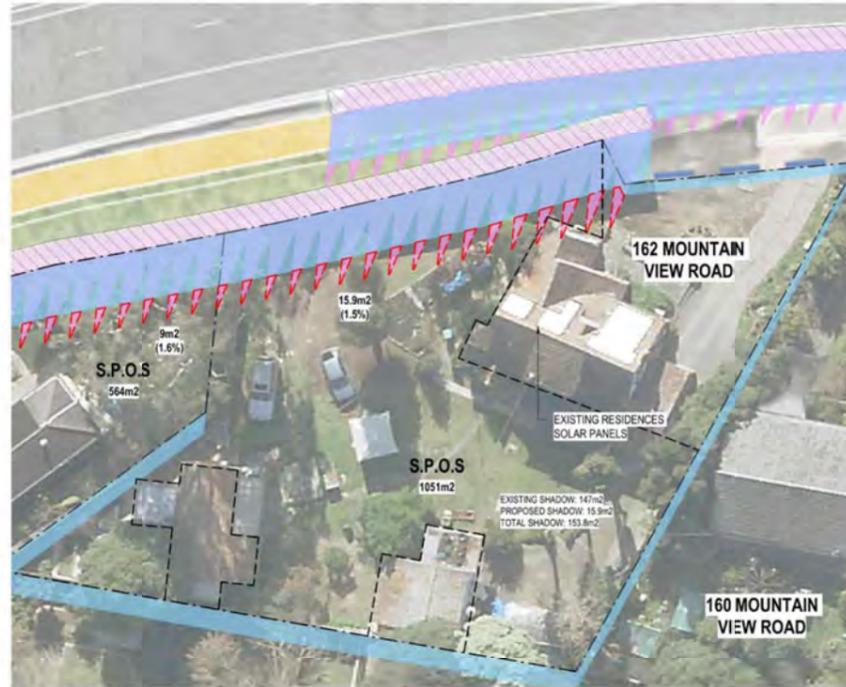
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
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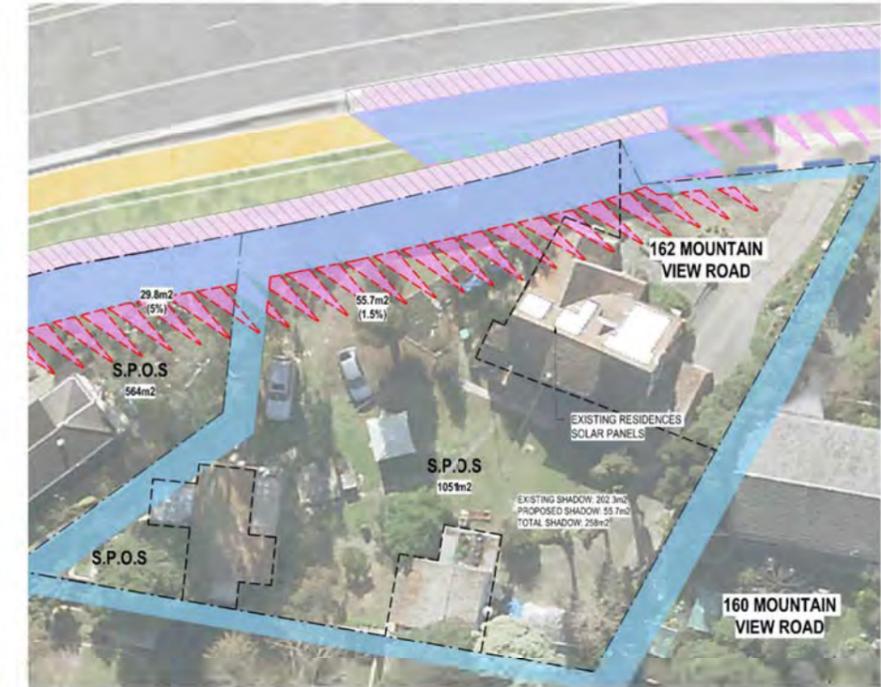


SEPTEMBER 22nd, 12PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

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SEPTEMBER 22nd, 3PM

SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

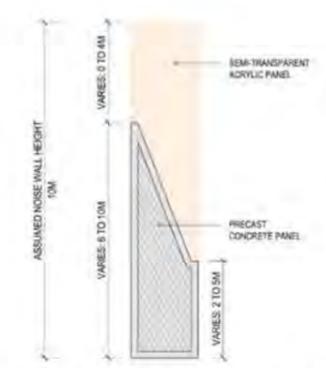
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OVERALL PACKAGE KEY PLAN

SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS



NOISE WALL TYPICAL DETAIL
SCALE 1 : 100

ASSUMED NOISE WALL HEIGHTS: 10 METRES
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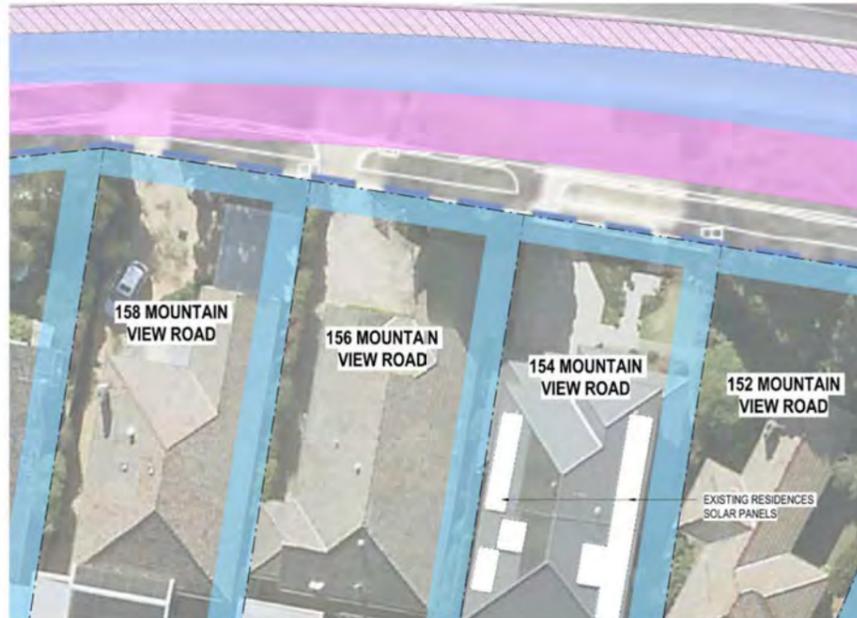
LEGEND

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SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 4

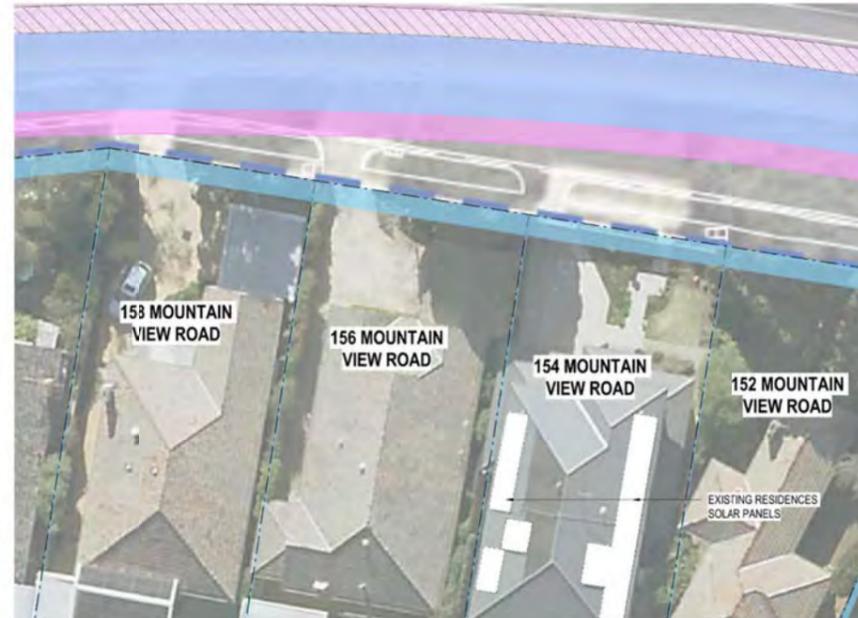


SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND MAJORITY OVER MOUNTAIN VIEW ROAD.

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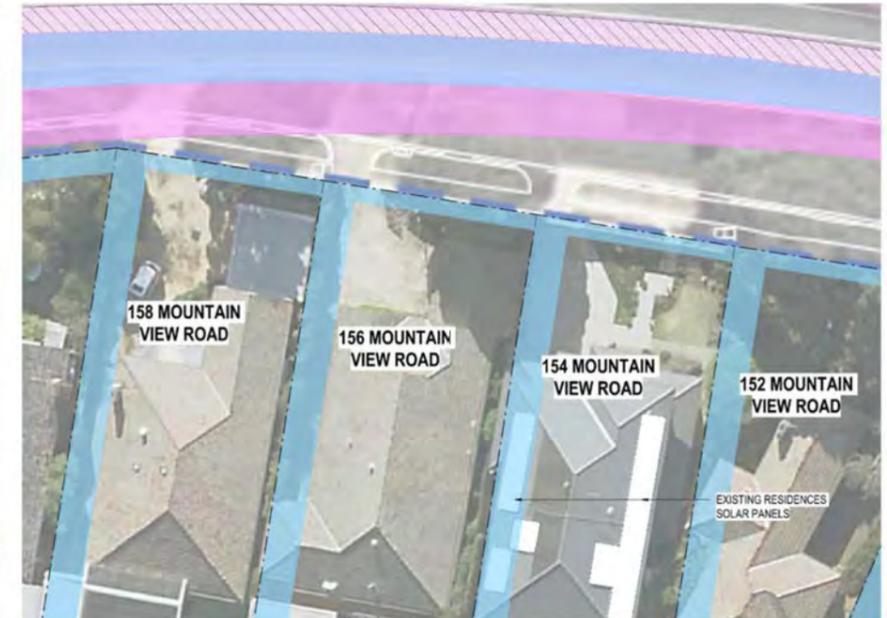


SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
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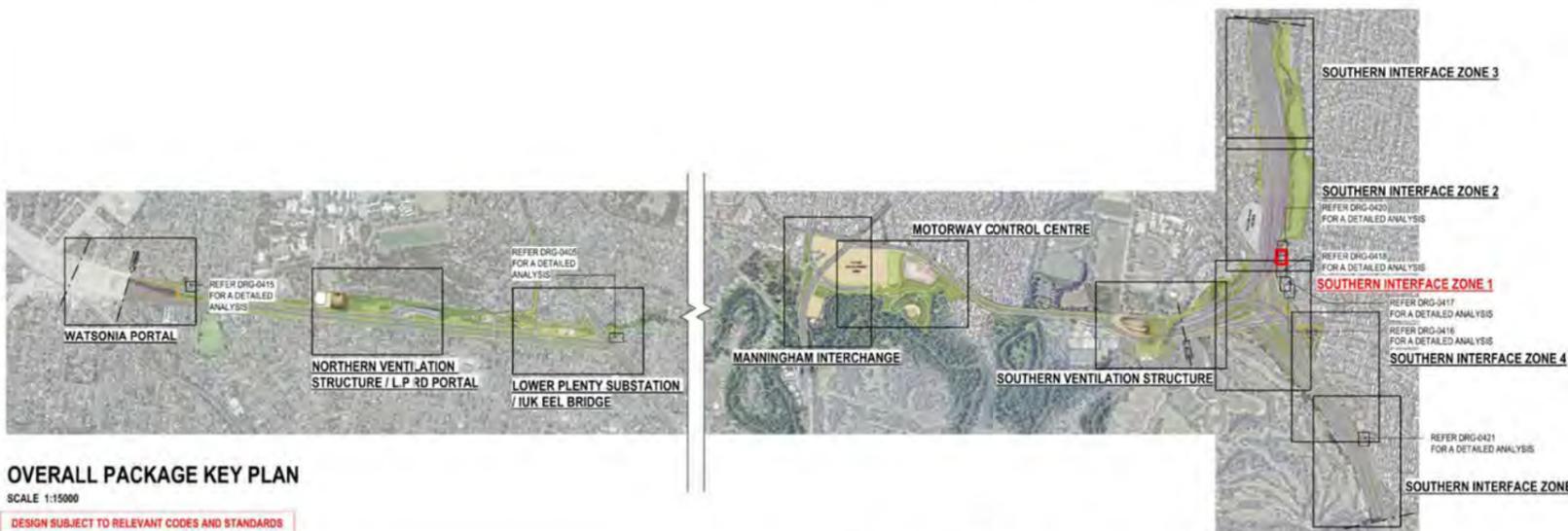


SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
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OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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LEGEND

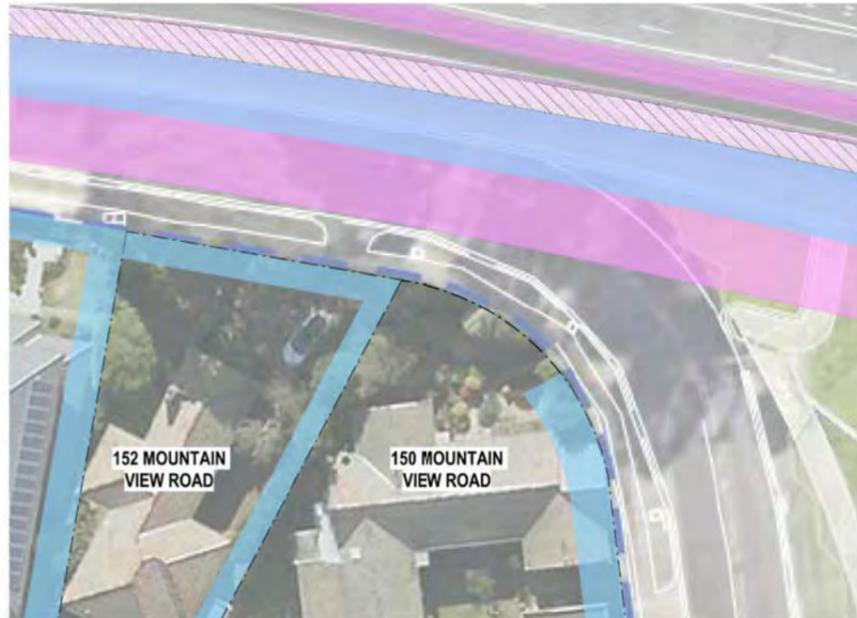
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- EXTENT OF OVERSHADOWING INTO S.P.O.S
- PROPOSED WALL EXTENT

<p>© North East Link Program</p> <table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> <tr> <td>06</td> <td>FOR REVIEW</td> <td>14.10.2022</td> <td>E. GRIFFITH</td> </tr> <tr> <td>05</td> <td>FOR REVIEW</td> <td>12.10.2022</td> <td>M. KEDDELL</td> </tr> <tr> <td>04</td> <td>FOR REVIEW</td> <td>01.09.2022</td> <td>R. MARSH</td> </tr> <tr> <td>03</td> <td>FOR REVIEW</td> <td>10.08.2022</td> <td>R. MARSH</td> </tr> <tr> <td>02</td> <td>FOR REVIEW</td> <td>23.06.2022</td> <td>R. WOOD</td> </tr> <tr> <td>01</td> <td>PUBLIC EXHIBITION</td> <td>02.05.2022</td> <td>R. NAYLOR</td> </tr> </table>		REV	DESCRIPTION	DATE	APPROVED	06	FOR REVIEW	14.10.2022	E. GRIFFITH	05	FOR REVIEW	12.10.2022	M. KEDDELL	04	FOR REVIEW	01.09.2022	R. MARSH	03	FOR REVIEW	10.08.2022	R. MARSH	02	FOR REVIEW	23.06.2022	R. WOOD	01	PUBLIC EXHIBITION	02.05.2022	R. NAYLOR	<p>Conditions of Use</p> <p>This Document has been developed for the purposes of the North East Link Program.</p> <p>Recipients of this document:</p> <ul style="list-style-type: none"> Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice. 	<p>SPARK NORTH EAST LINK</p> <p>MAJOR TRANSPORT INFRASTRUCTURE AUTHORITY</p> <p>VICTORIA'S BIG BUILD</p> <p>Protective Marking: OFFICIAL: Sensitive</p> <p>CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt</p>	<p>NORTH EAST LINK PROGRAM</p> <p>UDLP 2018-1988 480 KILMORE VIC 3070A, 380° PWSID 1010-1010-1010</p>	<p>NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 4</p> <p>PROJECT CONTRACT: NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0419</p> <p>SUIT. CODE: 06</p> <p>REVISION: 06</p>
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Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.



SOUTHERN INTERFACE ZONE 2 ANALYSIS



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND MAJORITY OVER MOUNTAIN VIEW ROAD.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND MAJORITY OVER MOUNTAIN VIEW ROAD.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

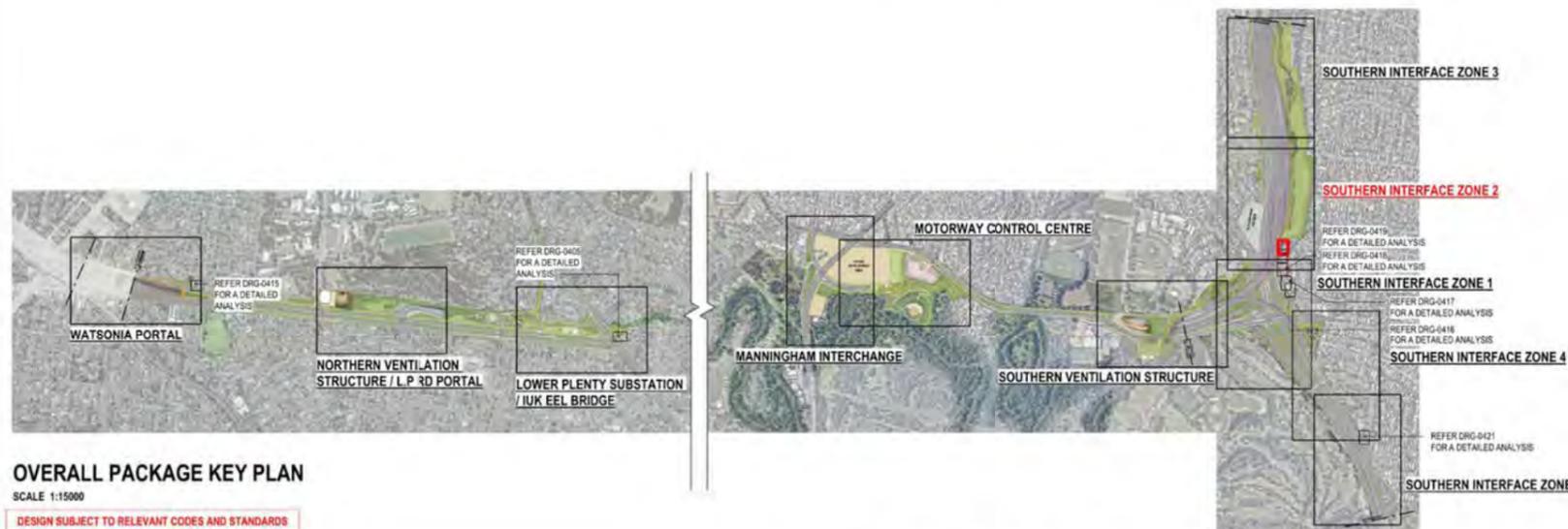


SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 1
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL OVERSHADOWING IS CASTED OVER MOUNTAIN VIEW ROAD.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000
DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS, SUCH AS 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:
SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

DESIGN NOTE:
SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST CASE SCENARIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS.
REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASED ON LATEST ADVICE AND NOISE MODELLING BY ACOUSTIC CONSULTANTS, WHICH MAY DIFFER AND THEREFORE AFFECT (MINIMISE) THE SHADOW CAST TO THAT SHOWN HERE.

LEGEND

- PROPOSED SHADOWS
- EXISTING FENCE & NOISE WALL SHADOWS
- SECLUDED PRIVATE OPEN SPACE (S.P.O.S.)
- EXTENT OF OVERSHADOWING INTO S.P.O.S.
- PROPOSED WALL EXTENT

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06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022			This Document has been developed for the purposes of the North East Link Program. Recipients of this document: - Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security Classification as per Department of Transport Information Security Policy; and - May not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.
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04	FOR REVIEW	01.09.2022	DESIGNED BY	M. KEDDELL	14.10.2022			
03	FOR REVIEW	10.08.2022	ENGINEERING CHECKED BY	R. MARSH	14.10.2022			
02	FOR REVIEW	23.06.2022	VERIFIED BY	R. WOOD	14.10.2022			
01	PUBLIC EXHIBITION	02.05.2022	APPROVED	R. NAYLOR	14.10.2022			
	REVISIONS							DRAWN: J. HO SIZE: A1 SCALE: As indicated

VICTORIA'S BIG BUILD

NORTH EAST LINK TUNNELS UDLP
ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN
UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2 ANALYSIS

Protective Marking: **OFFICIAL: Sensitive**

PROJECT CONTRACT:	NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0420	SUIT. CODE	REVISION: 06
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C:\Users\Documents\NEL-UDP-Attachments\4_jh6504.vrt

Approved SIZ content and design detail from NEL Tunnels UDLP has been TRANSFERRED to this UDLP.

SOUTHERN INTERFACE ZONE 5 ANALYSIS

Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.



SEPTEMBER 22nd, 9AM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING 27 & 29 ORION STREET.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
MINIMAL SHADOWING OVER THE PROPERTIES OF 27 & 29 ORION STREET; MOST SHADOWS CAST OVERLAP WITH EXISTING FENCE SHADOWS.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

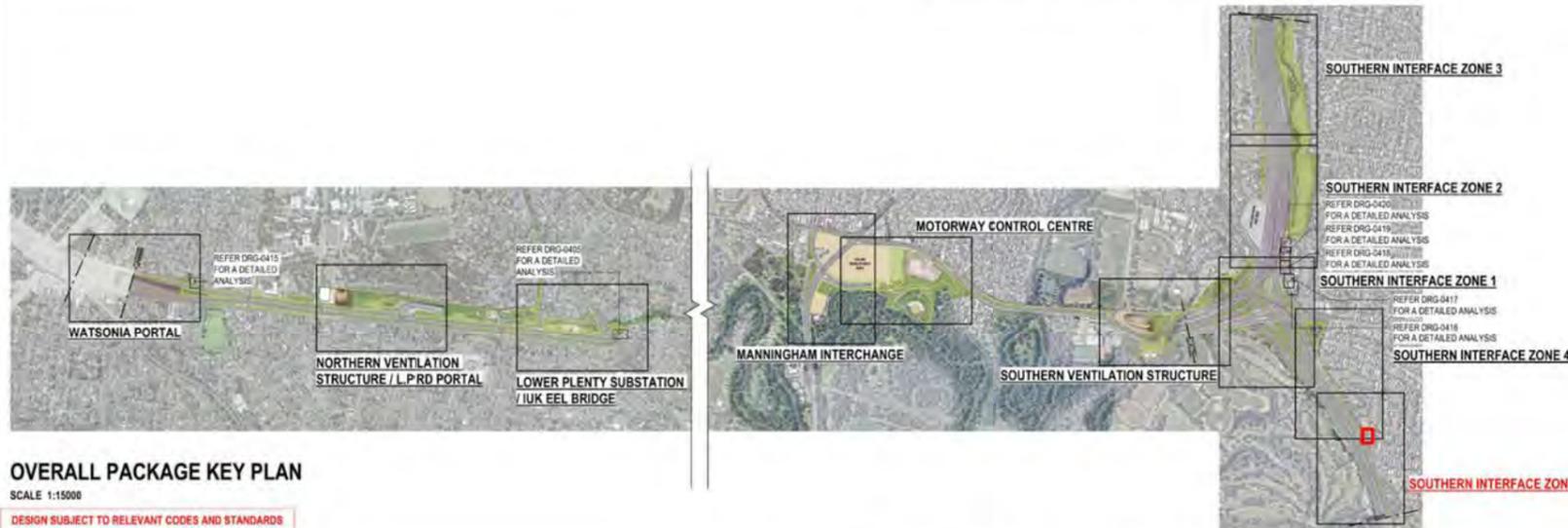


SEPTEMBER 22nd, 3PM
SCALE 1 : 250

SOUTHERN INTERFACE ZONE 5
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST OVER KOONUNG CREEK TRAIL AND INTO THE PROPERTIES OF 27 & 29 ORION STREET. SHADING CAST INTO THE PROPERTY OF 27 ORION STREET REMAINS MINIMAL WHEREAS THE SHADOWING EXTENT IS MODERATE WITHIN THE PROPERTY OF 29 ORION STREET. NO WALL SHADOWS IMPACT THE BUILT FORM OF EITHER PROPERTIES.

OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



OVERALL PACKAGE KEY PLAN
SCALE 1:15000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

OVERSHADOWING DISCLAIMER NOTE:
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- LEGEND**
- PROPOSED SHADOWS
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 - SECLUDED PRIVATE OPEN SPACE (S.P.O.S.)
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© North East Link Program						NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5 ANALYSIS		
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