



NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN OVERSHADOWING ASSESSMENT



NEL-CNT-WMI-2990-UUD-DRG-0400 UDLP OVERSHADOWING DIAGRAM COVER SHEET NEL_CNT_WMI_2990_UUD_DRG_0402 LIDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL UDLP OVERSHADOWING DIAGRAM NORTHERN VENTILATION STRUCTURE / L.P RD PORTAL NEL-CNT-WMI-2990-UUD-DRG-0403 NEL_CNT_WMI_2990_UUD_DRG_0405 LIDLP OVERSHADOWING DIAGRAM IUK (FEL) BRIDGE ANALYSIS NEL-CNT-WMI-2990-UUD-DRG-0406 UDLP OVERLOOKING DIAGRAM LUK (EEL) BRIDGE ANALYSIS NEL-CNT-WMI-2990-UUD-DRG-0408 LIDLP OVERSHADOWING DIAGRAM MOTORWAY CONTROL CENTRE UDLP OVERSHADOWING DIAGRAM SOUTHERN VENTILATION STRUCTURE NEL-CNT-WMI-2990-UUD-DRG-0411 UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 2 UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 3 NEL-CNT-WMI-2990-UUD-DRG-0414 UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 5 NEL-CNT-WMI-2990-UUD-DRG-0416 UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART NEL-CNT-WMI-2990-UUD-DRG-0417 UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2 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

14.10.2022 FOR REVIEW FOR REVIEW DESIGNED BY M. KEDDELL 14.10.2022 10.08.2022 14.10.2022 CHECKED BY VERIFIED BY R. WOOD PUBLIC EXHIBIT 02.05.2022

DESCRIPTION

REVISIONS

REV

Conditions of Use

SIZE: A1

DRAWN: J. HO



SCALE:





NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM COVER SHEET

PROJECT CONTRACT otective Marking: OFFICIAL : Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

NELP DRAWING No.:

REVISION 06 NEL-CNT-WMI-2990-UUD-DRG-0400

DATE



NORTHERN PACKAGE SITE PLAN

MOTORWAY CONTROL CENTRE SOUTHERN VENTILATION STRUCTURE

FOR CONTINUATION TO SOUTHERN PACKAGE

SOUTHERN INTERFACE ZONE 4

SOUTHERN INTERFACE ZONE 2

REFER SHEET NEL-CNT-WMI-2990-UUD-DRG-01

SOUTHERN PACKAGE SITE PLAN

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:

SHADOW AND OVERLOOKING DIAGRAMS AND ANALYSIS

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

 ${\it DESIGN}~{\it TO}~{\it BE}~{\it IN}~{\it ACCORDANCE}~{\it WITH}~{\it THE}~{\it URBAN}~{\it DESIGN}~{\it STRATEGY}.$

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.

SOUTHERN INTERFACE SITE PLAN SCALE 1:7000

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

SOUTHERN INTERFACE ZONE 5

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SOUTHERN INTERFACE ZONE 1

DATE Conditions of Use

SOUTHERN INTERFACE ZONE 3

REFER SHEET NEL-CNT-WMI-2990-UL

14.10.2022 Recipients of this document:

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14.10.2022 DRAWN: J. HO SIZE: A1 SCALE: 1:7000







NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM OVERALL SITE PLAN

rotective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

PROJECT CONTRACT:

NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0401 SUIT. CODE REVISION 06

WATSONIA PORTAL



SEPTEMBER 22nd, 9AM SCALE 1: 2500

WATSONIA PORTAL REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM SCALE 1: 2500

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



SEPTEMBER 22nd, 3PM SCALE 1: 2500

WATSONIA PORTAL REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAIL ELEMENTS. SOME
SHADING (APPROX 3016) TO PROPOSED FITNESS PARK TO EAST OF PORTAL.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS

SOUTHERN INTERFACE ZONE 2 MOTORWAY CONTROL CENTRE SOUTHERN INTERFACE ZONE 1 SOUTHERN INTERFACE ZONE 4 NORTHERN VENTILATION STRUCTURE / L.P RD PORTAL LOWER PLENTY SUBSTATION / IUK EEL BRIDGE SOUTHERN VENTILATION STRUCTURE REFER DRG-0421 FOR A DETAILED ANALYSIS **OVERALL PACKAGE KEY PLAN** SOUTHERN INTERFACE ZONE 5

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 THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMEN PHASE WHICH WILL INCLIDE: 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.

LEGEND EXTENT OF SHADOWS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:02:35 PM

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Conditions of Use 14.10.2022 Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Sociary 14.10.2022

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SIZE: A1

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SCALE: As indicated

SOUTHERN INTERFACE ZONE 3



CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

NORTH EAST LINK

PROJECT CONTRACT:

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL

NELP DRAWING No.: SUIT. CODE REVISION 06 NEL-CNT-WMI-2990-UUD-DRG-0402

NORTHERN VENTILATION STRUCTURE / LOWER PLENTY RD PORTAL



SEPTEMBER 22nd, 9AM SCALE 1: 2500

NORTHERN VENTILATION STRUCTURE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS
OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM SCALE 1: 2500

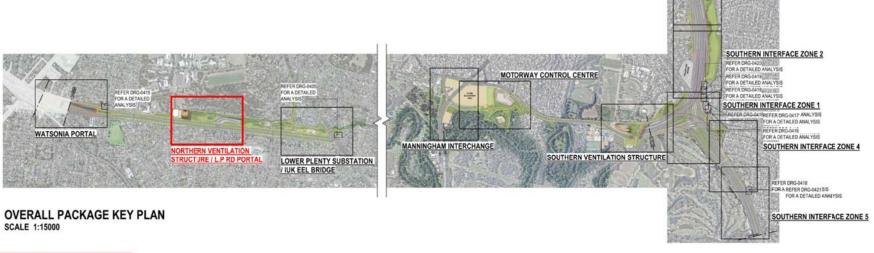
NORTHERN VENTILATION STRUCTURE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING TO RE-ESTABLISHED VEGETATION AND DAY-LIGHTED CREEK COURSE.
OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 3PM

SCALE 1: 2500

SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING TO ESTABLISHED WOODLAND AND DAY-LIGHTED CREEK COURSE.
OVERLOOKING ANALYSIS
THERE ARE NO ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE O



OVERSHADOWING DISCLAIMER NOTE:

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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

LEGEND EXTENT OF SHADOWS

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:02:42 PM

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SIZE: A1

DRAWN: J. HO

SCALE: As indicated

SOUTHERN INTERFACE ZONE 3

TRANSPORT INFRASTRUCTURE

rotective Marking: OFFICIAL: Sensitive

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



NORTH **EAST LINK** PROJECT CONTRACT:

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM NORTHERN VENTILATION STRUCTURE / L.P RD PORTAL

NEL-CNT-WMI-2990-UUD-DRG-0403

NELP DRAWING No.: SUIT. CODE REVISION

LOWER PLENTY SUBSTATION / IUK (EEL) BRIDGE



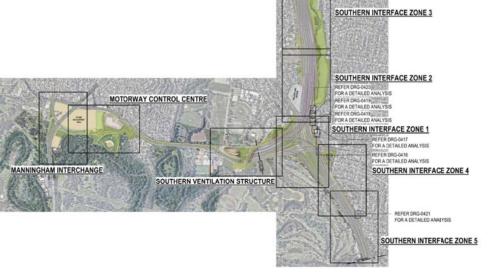
SEPTEMBER 22nd, 9AM SCALE 1: 2500

LOWER PLENTY ROAD SUP BRIDGE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
SHADOWS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING OVER NON-SENSITIVE URBAN
ELEMENTS. SOME SHADING TO RE-ESTABLISHED VEGETATION AND BANYULE DRAIN. MINIMAL SHADING TO
ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0405 FOR FURTHER ANALYSIS.
OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM JUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406
FOR FURTHER ANALYSIS.



SEPTEMBER 22nd, 12PM SCALE 1: 2500

LOWER PLENTY ROAD SUP BRIDGE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY, MINIMAL SHADING OVER NON-SENSITIVE URBAN
ELEMENTS, MINIMAL SHADING TO RE-ESTABLISHED VEGETATION AND BANYULE DRAIN.
OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM IUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406
FOR FURTHER ANALYSIS.





SEPTEMBER 22nd, 3PM

SCALE 1: 2500

LOWER PLENTY ROAD SUP BRIDGE REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY, SOME SHADING OVER NON-SENSITIVE URBAN ELEMENTS.
SOME SHADING TO ESTABLISHED WOODLAND VEGETATION AND BANYULE DRAIN.
OVERLOOKING ANALYSIS
POSSIBILITY OF OVERLOOKING FROM JUK (EEL) BRIDGE TO ADJACENT RESIDENTIAL PROPERTIES. REFER DRG 0406
FOR FURTHER ANALYSIS.

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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,

SURVEYED OF EXISTING BUILDING EXCEPTIONS, SACRET PRICE EXCEPTIONS, STATE AND THE RELEVANT IMPACTED.

SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED.

LEGEND EXTENT OF SHADOWS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

SCALE 1:15000

14/10/2022 4:02:50 PM

WATSONIA PORTAL

OVERALL PACKAGE KEY PLAN

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NORTHERN VENTILATION

Conditions of Use 14.10.2022

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SIZE: A1

DRAWN: J. HO

SCALE: As indicated





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CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

NORTH **EAST LINK**

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM LOWER PLENTY SUBSTATION / IUK (EEL) BRIDGE

NELP DRAWING No.: PROJECT CONTRACT: SUIT. CODE REVISION NEL-CNT-WMI-2990-UUD-DRG-0404 06

LOWER PLENTY SUP / IUK (EEL) BRIDGE





SOUTHERN INTERFACE ZONE 3

SCALE: As indicated



SEPTEMBER 22nd, 9AM SCALE 1:250

LOWER PLENTY ROAD SUP BRIDGE REQ. LP4 | REG. EMF, EPR LP4

SCALE 1:15000

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

SHADOW ANALYSIS
BRIDGE CONSTITUTES 9.3% ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE
OVERLOOKING ANALYSIS
REFER NEXT PAGE

SEPTEMBER 22nd, 12PM

SCALE 1: 250

REQ. LP4 | REG. EMF, EPR LP4

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SHADOW ANALYSIS
BRIDGE CONSTITUTES 5.1% ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE

SEPTEMBER 22nd, 3PM

SCALE 1: 250

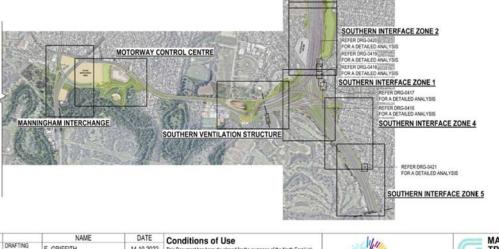
REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
BRIDGE CONTRIBUTES NO ADDITIONAL SHADING OF EXISTING SECLUDED PRIVATE OPEN SPACE



DESCRIPTION

REVISIONS



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SIZE: A1

DRAWN: J. HO

OVERSHADOWING DISCLAIMER NOTE:

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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.
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NORTH EAST LINK TUNNELS UDLP NORTH EAST LINK UDLP OVERSHADOWING DIAGRAM IUK (EEL) BRIDGE ANALYSIS

rotective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

TRANSPORT INFRASTRUCTURE

MAJOR

PROJECT CONTRACT:

NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0405

SUIT. CODE REVISION 06

DRAFTING CHECKED BY E. GRIFFITH

DESIGNED BY M. KEDDELL

APPROVED R. NAYLOR

APPROVALS

CHECKED BY 02.05.2022 VERIFIED BY R. WOOD

14.10.2022

12.10.2022 01.09.2022

10.08.2022

DATE

LOWER PLENTY SUP / IUK (EEL) BRIDGE



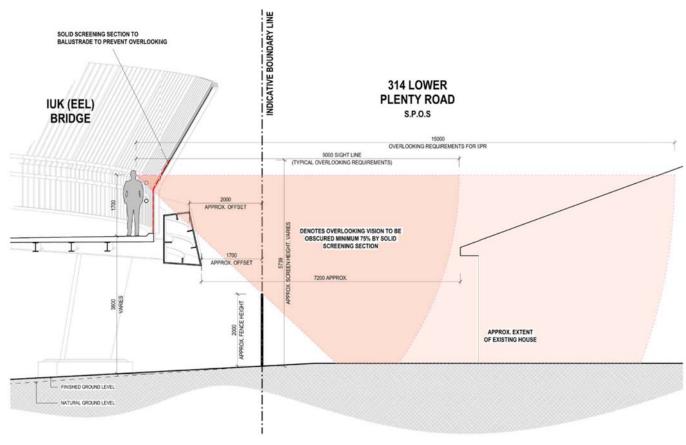
OVERLOOKING PLAN SCALE 1: 200



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:03:15 PM

LOWER PLENTY ROAD SUP BRIDGE REQ. LP4 | REG. EMF, EPR LP4 OVERLOOKING ANALYSIS
THERE ARE OVERLOOKING CONCERNS FOR BOTH 314 LOWER PLENTY ROAD AND THE REAR UNIT OF 85 MCCRAE
ROAD. BOTH PROPERTIES REQUIRE MITIGATION FROM THE PROPOSED SNP BRIDGE. THE DESIGN PROPOSES A SCREEN ALLOWING FOR A MAXIMUM CLEAR OFENING OF 25% IN THE REGION SHADED IN THE ABOVE DIAGRAM TO PREVENT VISUAL INTRUSION ON THE SECLUDED PRIVATE OPEN SPACES OF THESE PROPERTIES.



OVERLOOKING SECTION SCALE 1:50

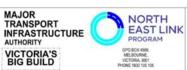
OVERSHADOWING DISCLAIMER NOTE:
OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM
MAJOR BULLDING ELEMENTS AND THEREFORE DO NOT ILLUSTRATE SHADOWS CASTED FROM MINOR ELEMENTS
SUCH AS GANTRIES, LIGHT POLES AND LOW-HEIGHT RETAINING WALLS.

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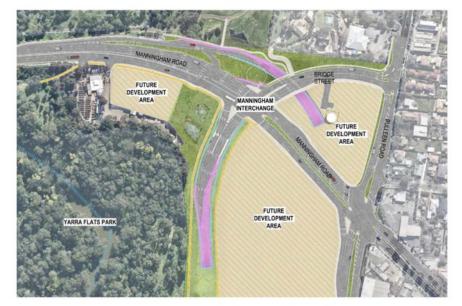


NORTH EAST LINK TUNNELS UDLP UDLP OVERLOOKING DIAGRAM IUK (EEL) BRIDGE ANALYSIS

PROJECT CONTRACT: Protective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

NELP DRAWING No.: SUIT. CODE REVISION NEL-CNT-WMI-2990-UUD-DRG-0406 06

MANNINGHAM INTERCHANGE



SEPTEMBER 22nd, 9AM SCALE 1:2500

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 12PM SCALE 1: 2500

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SEPTEMBER 22nd, 3PM SCALE 1: 2500

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS.
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:

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 SUC

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,

SURVEYES OF EXISTING BUILDING ELECTIONS, SOLDER PRIVEL LOCATIONS, STIE LEVELS, HABITABLE WHODOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

LEGEND EXTENT OF SHADOWS

SUIT. CODE REVISION

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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SCALE: As indicated



NORTH **EAST LINK**

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM MANNINGHAM INTERCHANGE

PROJECT CONTRACT: NELP DRAWING No.: rotective Marking: OFFICIAL: Sensitive NEL-CNT-WMI-2990-UUD-DRG-0407 CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

MOTORWAY CONTROL CENTRE



SEPTEMBER 22nd, 9AM SCALE 1:2500

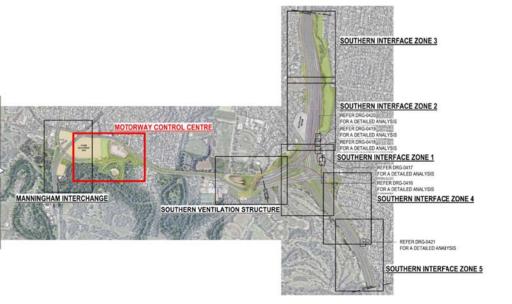
MOTORWAY CONTROL CENTRE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY, MINIMAL SHADING TO NEW VEGETATION (SENSTIVE RECEPTORS) IN YARRA FLATS PARK AREA.

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



SEPTEMBER 22nd, 12PM SCALE 1: 2500

MOTORWAY CONTROL CENTRE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
ALL SHADOWS CAST ARE BACK INTO OR WITHIN PROJECT SITE BOUNDARY, OVER HARD SURFACES.
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.





SEPTEMBER 22nd, 3PM

SCALE 1: 2500

SHADOW ANALYSIS
ALL SHADOWS CAST ARE BACK INTO OR WITHIN PROJECT SITE BOUNDARY. MINIMAL SHADING OVER HARD
SURFACES AND NON-SENSITIVE URBAN ELEMENTS. SOME SHADING TO LANDSCAPING TONEW BULLEEN ROAD

LANDSCAPING.

OVERLOOKING ANALYSIS

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

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,

SURVEYES OF EXISTING BUILDING ELECTIONS, SOLDER PRIVEL LOCATIONS, STIE LEVELS, HABITABLE WHODOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.

PROJECT CONTRACT:

LEGEND EXTENT OF SHADOWS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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WATSONIA PORTAL

OVERALL PACKAGE KEY PLAN

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NORTHERN VENTILATION

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SCALE: As indicated





NORTH EAST LINK

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM MOTORWAY CONTROL CENTRE

NEL-CNT-WMI-2990-UUD-DRG-0408

NELP DRAWING No.:

SUIT. CODE REVISION

rotective Marking: OFFICIAL: Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

LOWER PLENTY SUBSTATION / IUK EEL BRIDGE

06

SOUTHERN VENTILATION STRUCTURE



SEPTEMBER 22nd, 9AM SCALE 1: 2500

SOUTHERN VENTILATION STRUCTURE REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS
SHADOWIS CAST ARE MAINLY WITHIN PROJECT SITE BOUNDARY, SOME SHADOWING OVER NON-SENSITIVE URBAN ELEMENTS, MINOR SHADOWING OVER OLD CAREY CRICKET CLUB AND FREEWAY 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
OVER.OOKING ANALYSIS
OVER.OOKING FROM YARRA LINK GREEN BRIDGE TO VENETO CLUB AND MARCELLIN SPORTS FIELDS ARE NONSENSITIVE AREAS.





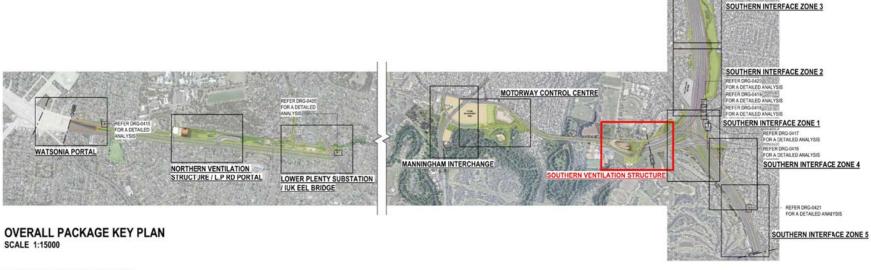
SEPTEMBER 22nd, 3PM

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.



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 SUC

THIS ANALYSIS IS SUBJECT TO SITE SURVEYS WHICH ARE TO BE UNDERTAKEN DURING THE DESIGN DEVELOPMENT THIS ANALTSIS IS SUBJECT TO SITE SURVEYS THIRD THIS TO BE CHESTED TO SUBJECT TO SITE SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS,

SURVEYED OF EXISTING BUILDING EXACTIONS, SACAR PRICE EXCENTING STATES AND THE RELEVANT IMPACTED.

SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED.

LEGEND EXTENT OF SHADOWS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM SOUTHERN VENTILATION STRUCTURE

NELP DRAWING No.: PROJECT CONTRACT: SUIT. CODE REVISION rotective Marking: OFFICIAL: Sensitive NEL-CNT-WMI-2990-UUD-DRG-0409 06 CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



SEPTEMBER 22nd, 9AM

SCALE 1: 2500

SOUTHERN INTERFACE ZONE 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.

ACHIEVED I HINDUIN REQUISED WALL FIRST TO STRUCK TO SOURCE 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.

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

SOUTHERN INTERFACE ZONE 3 SOUTHERN INTERFACE ZONE 2 SOUTHERN INTERFACE ZONE 4 SOUTHERN INTERFACE ZONE 5

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

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

NORTH EAST LINK TUNNELS UDLP

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NORTH **EAST LINK**

ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE

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PROJECT CONTRACT:

NELP DRAWING No.: NEL-CNT-WMI-2990-UUD-DRG-0410 SUIT. CODE REVISION 06





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

USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS

OVERLOOKING PRESENT FROM NEL INBOUND RAMPS OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED

BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.

NEL INBOUND FREEWAY KOONUNG CREEK RESERVE

SEPTEMBER 22nd, 12PM

SCALE 1: 2500

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

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY, MINIMAL SHADOWING OVER KOONUNG CREEK RESERVE
AND MOUNTAIN WEW FOOD.
OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMPS OVER MOUNTAIN VIEW ROAD PROPERTIES. THIS IS MITIGATED
BY DISTANCE (OVER 20 METRES) AND TYPICAL EXPERIENCE OF FAST-MOVING TRAFFIC.



SEPTEMBER 22nd, 3PM

SCALE 1: 2500

SOUTHERN INTERFACE ZONE 2 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 OVER KOONUNG CREEK! KOONUNG RESERVE HIGH-LEVEL ANALYSIS INDICATES MINIMAL
SHADOWING TO 162 MOUNTAIN VIEW ROAD FURTHER ASSEMENT FOLLOWING GETAILED LAND SURVEY AND
MITIGATION THROUGH USE OF SEMI-TRANSPARENT BARRIERS WILL OFFSET THIS.

OVERLOOKING ANALYSIS
OVERLOOKING PRESENT FROM NEL INBOUND RAMPS 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:

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 SUC

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,

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.



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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SOUTHERN INTERFACE ZONE 3



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

NELP DRAWING No.:



SEPTEMBER 22nd, 9AM SCALE 1: 2500

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

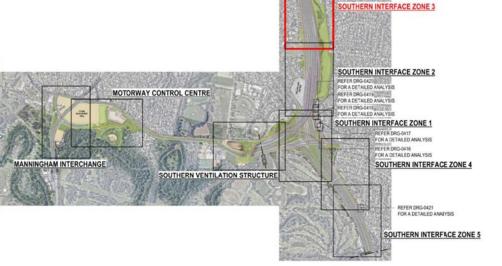
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SOUTHERN INTERFACE ZONE 3 REQ. LP4 | REG. EMF, EPR LP4

SHADOW ANALYSIS
SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAIL ELEMENTS. SOME
SHADOWING OVER KOODIUNG CREEK RESERVE. **OVERLOOKING ANALYSIS**MINIMAL OVERLOOKING FROM NORTH EAST LINK RAMP TO KOONUNG CREEK RESERVE.

WATSONIA PORTAL NORTHERN VENTILATION LOWER PLENTY SUBSTATION

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

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.

PROJECT CONTRACT:

LEGEND EXTENT OF SHADOWS

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:04:04 PM

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06 FOR REVIEW	RE	V DESCRIPTION	DATE A	APPROVED	R. NAYLOR	14.10.2022	
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 03 FOR REVIEW 10.08.2022 DESIGNED BY M. KEDDELL 14.10.2022 02 FOR REVIEW 23.08.2022 CHECKED BY R. MARSH 14.10.2022	01	PUBLIC EXHIBITION	02.05.2022 V	VERIFIED BY	R. WOOD	14.10.2022	
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NAME DATE	06	FOR REVIEW			E. GRIFFITH	14.10.2022	1
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Conditions of Use ament has been developed for the purposes of the North East Link

SIZE: A1

DRAWN: J. HO

SCALE: As indicated



CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



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

3

NELP DRAWING No.:



SEPTEMBER 22nd, 9AM SCALE 1: 2500

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

MAJORTY 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.

SEPTEMBER 22nd, 12PM 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.
LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

OVER.OOKING 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.



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 TO EXISTING KOONLING CREEK TRAIL APPROACHING CORNER OF LEONIS AVENUE AND

COLUMBA STREET LANDSCAPED ROAD RESERVE RECEIVES FULL SHADOW BELOW ELEVATED ROADWAY.

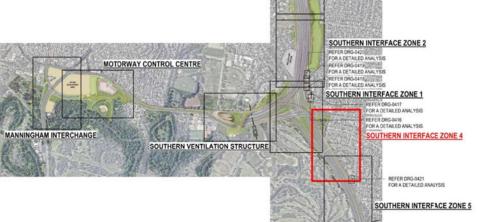
OVERLOOKING ANALYSIS

NORTH EAST LINK TO EASTERN FREEWAY WESTBOUND RAMP POSES POSSIBLE OVERLOOKING TO LEONIS AVENUE

AND COLUMBA STREET PROPERTIES ARE MITIGATED BY EXISTING ELEVATED TO POGRAPHY.



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

SURVEYS OF EXISTING BUILDING LOCATIONS, SOLAR PANEL LOCATIONS, SITE LEVELS,

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.



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:04:12 PM

5		REVISIONS			APPROVALS	
Serio In	REV	DESCRIPTION	DATE	APPROVED	R. NAYLOR	14.10.20
٤	01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD	14.10.20
į	02	FOR REVIEW	23.06.2022	CHECKED BY		
2	03	FOR REVIEW	10.08.2022	ENGINEERING	R. MARSH	14.10.20
į	04	FOR REVIEW	01.09.2022	DESIGNED BY	M. KEDDELL	14.10.20
٤	05	FOR REVIEW	12.10.2022	CHECKED BY	75070 TO 00000	200000000000000000000000000000000000000
į	06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.20
į					NAME	DATE
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Classification as per Department of Transport Information Security Policy; an University of the Information Security Policy; and Department of Transport Information Security Policy P

SIZE: A1

DRAWN: J. HO



SCALE: As indicated

SOUTHERN INTERFACE ZONE 3



rotective Marking: OFFICIAL: Sensitive

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



PROJECT CONTRACT:

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

NELP DRAWING No.:



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 ORIONSTREET,
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 KOONLING 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

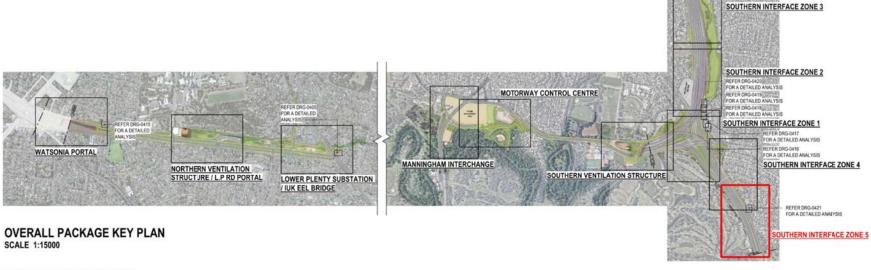
SHADOWS CAST OVER KOONLING CREEK TRAIL APPROACHING ORION STREET, HIGH-LEVEL ANALYSIS INDICATES

MINIMAL SHADOWING TO REAR FENCE OF 27 & 29 ORION STREET, FURTHER ASSESMENT 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.



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.

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.

PROJECT CONTRACT:

REFER TO SOUTHERN INTERFACE DRAWING 0131 FOR PROPOSED WALL HEIGHTS BASELI 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

DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

14/10/2022 4:04:19 PM

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REV	DESCRIPTION	DATE	APPROVED	R. NAYLOR	14.10.2022
01	PUBLIC EXHIBITION	02.05.2022	VERIFIED BY	R. WOOD	14.10.2022
02	FOR REVIEW	23.06.2022	CHECKED BY		
03	FOR REVIEW	10.08.2022	ENGINEERING	R. MARSH	14.10.2022
04	FOR REVIEW	01.09.2022		M. KEDDELL	14.10.2022
05	FOR REVIEW	12.10.2022	CHECKED BY		100000000000000000000000000000000000000
06	FOR REVIEW	14.10.2022	DRAFTING	E. GRIFFITH	14.10.2022
				NAME	DATE

Conditions of Use

SIZE: A1

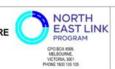
DRAWN: J. HO



SCALE: As indicated



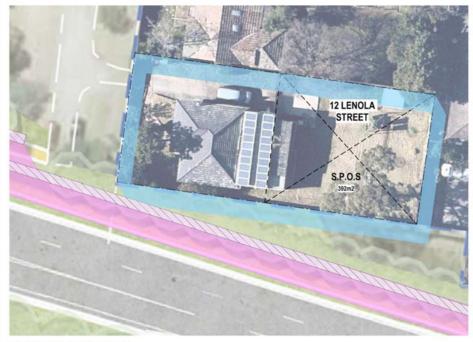
CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



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

NELP DRAWING No.:

WATSONIA PORTAL ANALYSIS



SEPTEMBER 22nd, 9AM SCALE 1: 250

WATSONIA PORTAL ANALYSIS REQ. LP4 | REG. EMF, EPR LP4

FOR REVIEW FOR REVIEW

FOR REVIEW PUBLIC EXHIBIT

REV

14/10/2022 4:04:26 PM

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE CVERLOOKING CONCERNS.

DESCRIPTION

REVISIONS



SOUTHERN INTERFACE ZONE 3

SEPTEMBER 22nd, 12PM

Conditions of Use

DRAWN: J. HO

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SIZE: A1

SCALE: As indicated

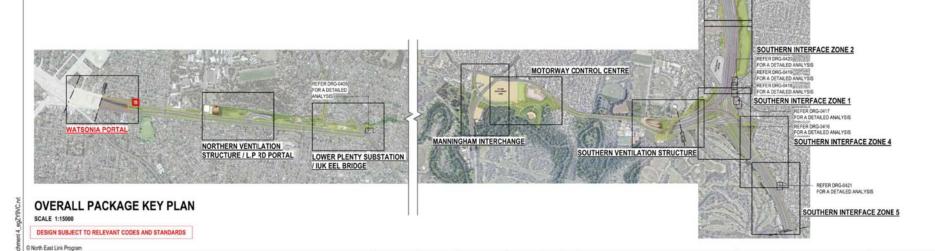
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14.10.2022

SHADOW ANALYSIS
ALL SHADOWS CAST ARE WITHIN PROJECT SITE BOUNDARY AND OVER NON-SENSITIVE URBAN ELEMENTS
OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

SCALE 1: 250 WATSONIA PORTAL ANALYSIS REQ. LP4 | REG. EMF, EPR LP4

SCALE 1: 250 WATSONIA PORTAL ANALYSIS REQ. LP4 | REG. EMF, EPR LP4 SHADOW ANALYSIS SHADUW ANALTSIS
SHADUW CAST ARE MOSTLY WITHIN PROJECT SITE BOUNDARY. SOME SHADING CASTED OVERLAPS ENTIRELY
WITHIN SHADOWS CASTED BY 12 LENOLA'S EXISTING FENCE AND THEREFORE CONSTITUTES NO OVERSHADOWI
CONCERNS. THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



DRAFTING CHECKED BY E. GRIFFITH

DESIGNED BY M. KEDDELL

APPROVED R. NAYLOR

APPROVALS

23.06.2022 CHECKED BY R. MARSH 02.05.2022 VERIFIED BY R. WOOD

12.10.2022 01.09.2022

10.08.2022

DATE

NORTH

EAST LINK

SEPTEMBER 22nd, 3PM

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,

SURVEYED OF EXSTRUCTIONS COURTIONS, SOURCE PRIVACE LOCATIONS, STIELEVELS, HABITABLE WINDOWS, ETC.
SUBSEQUENT ADDITIONAL OVERSHADOWING ASSESSMENT WILL BE UNDERTAKEN AND THE RELEVANT IMPACTED PROPERTIES CONSULTED.



SUIT. CODE REVISION

NORTH EAST LINK TUNNELS UDLP

UDLP OVERSHADOWING DIAGRAM WATSONIA PORTAL ANALYSIS

PROJECT CONTRACT: NELP DRAWING No.:

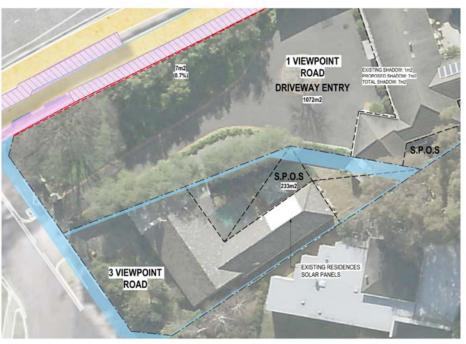
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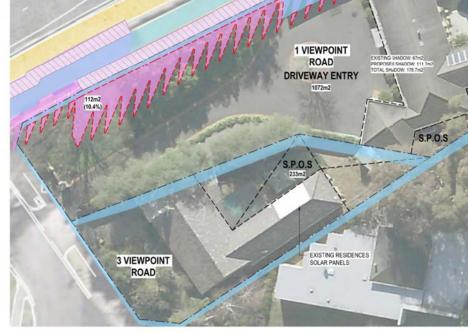
TRANSPORT INFRASTRUCTURE

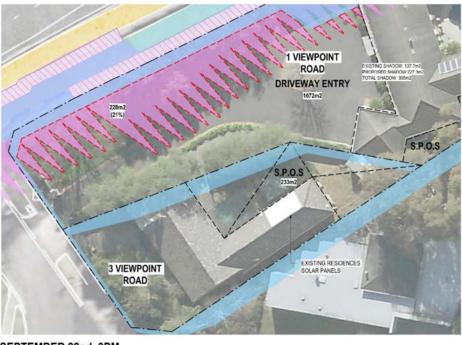
06 NEL-CNT-WMI-2990-UUD-DRG-0415

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

SCALE 1: 250

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 ACYRLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE CVERLOOKING CONCERNS.

OVERSHADOWING DISCLAIMER NOTE:

OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM
MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT LILUSTRATE SHADOWS CASTEC 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

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.

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

SEPTEMBER 22nd, 12PM

SCALE 1: 250

ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. SOME OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACYPLIC PORTIONS OF NOISE WALL. NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.

THERE ARE NO FLEVATED FLEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

SEPTEMBER 22nd, 3PM

SCALE 1: 250

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

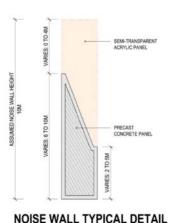
SHADOW ANALYSIS

ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD, SOME OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS, NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACYRLIC PORTIONS OF NOISE WALL, NO SHADOWING CONCERNS PRESENTED FOR THE PROPERTY OF 3 VIEWPOINT ROAD.

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







NORTH

EAST LINK

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

REFER TO SOUTHERN INTER*ACE 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.



NELP DRAWING No.:

NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE

1 ANALYSIS - PART 1

SUIT. CODE REVISION NEL-CNT-WMI-2990-UUD-DRG-0416 06

OVERALL PACKAGE KEY PLAN

SCALE 1:15000

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DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

O North	East Link Program	
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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
REV	DESCRIPTION	DATE
	REVISIONS	

E. GRIFFITH 14.10.2022 DESIGNED BY M. KEDDELL 14.10.2022 VERIFIED BY R. WOOD APPROVED R. NAYLOR APPROVALS

DRAFTING

CHECKED BY

CHECKED BY

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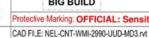
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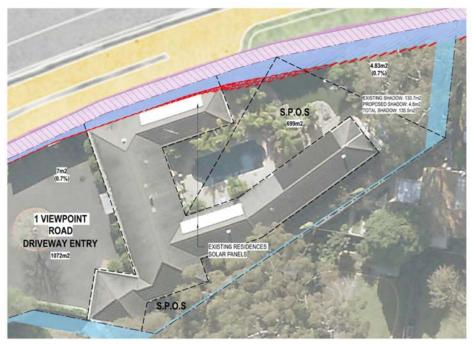


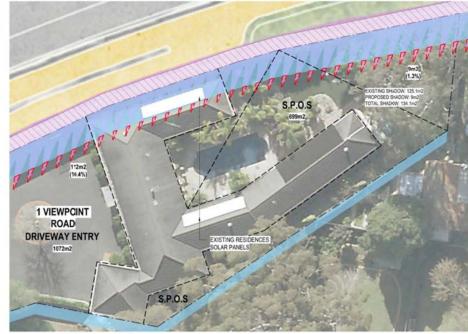
TRANSPORT INFRASTRUCTURE

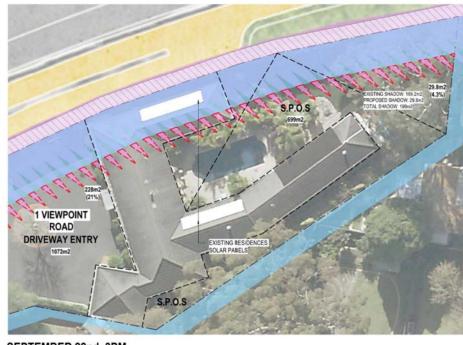
PROJECT CONTRACT:

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

SCALE 1: 250

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

SHADOW ANALYSIS

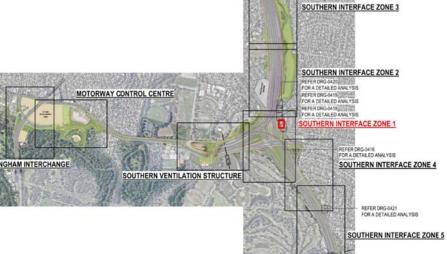
ADDITIONAL SHADOW CAST OVER THE SECLUDED PRIVATE OPEN SPACE OF 1 VIEWPONT ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACYRLIC PORTIONS OF NOISE WALL.

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

OVERSHADOWING DISCLAIMER NOTE:

OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES OF DEPICTING SHADOWING EFFECTS FROM
MAJOR BUILDING ELEMENTS AND THEREFORE DO NOT LILUSTRATE SHADOWS CASTEC FROM MINOR ELEMENTS
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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.



ADDITIONAL SHADOW CAST OVER THE SECLUDED PRIVATE OPEN SPACE OF 1 VIEWPOINT ROAD. THE MAJORITY OF

THERE ARE NO FLEVATED FLEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.

NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE

SEPTEMBER 22nd, 12PM

SCALE 1:250

SHADOW ANALYSIS

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

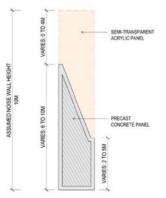
ACYRLIC PORTIONS OF NOISE WALL.

SEPTEMBER 22nd, 3PM SCALE 1: 250

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

SHADOW ANALYSIS

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



NOISE WALL TYPICAL DETAIL SCALE 1:100

DESIGN NOTE: SHADOW ANALYSIS HAS BEEN DEVELOPED BASED ON AN ASSUMED WALL HEIGHT OF 10 METRES, OR "WORST AGE COEMADIO" PENDING FURTHER DESIGN DEVELOPMENT AND RATIONALISATION OF WALL HEIGHTS. REFER TO SOUTHERN INTER*ACE 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.

ASSUMED NOISE WALL HEIGHTS: 10 METRES

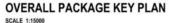


NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 2

NELP DRAWING No.: PROJECT CONTRACT: SUIT. CODE REVISION NEL-CNT-WMI-2990-UUD-DRG-0417



REVISIONS



DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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	DESCRIPTION
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		NAME	UA
14.10.2022	DRAFTING	E. GRIFFITH	14.10.
12.10.2022	CHECKED BY	70700000000	200000000
01.09.2022	DESIGNED BY	M. KEDDELL	14.10.
10.08.2022	ENGINEERING	R. MARSH	14.10.
23.06.2022	CHECKED BY	N. MANON	14.10.
02.05.2022	VERIFIED BY	R. WOOD	14.10.
DATE	APPROVED	R. NAYLOR	14.10.
		APPROVALS	

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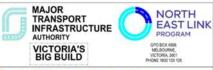
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SCALE: As indicated



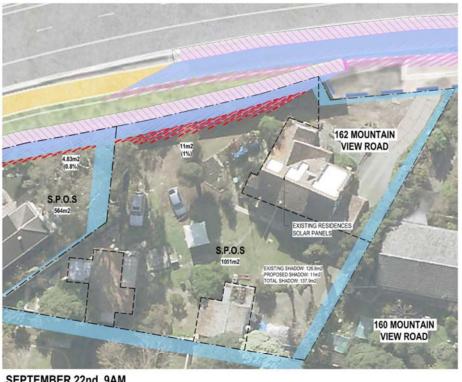


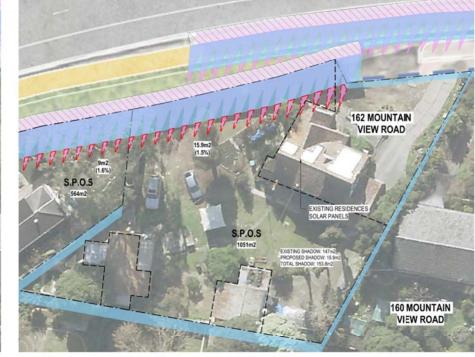
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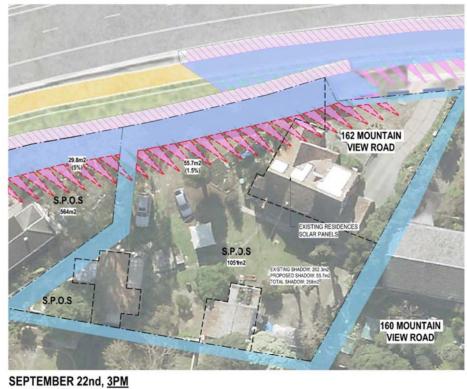
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Overshadowing shall not exceed more than 50% of the secluded private open space or 40msq which ever is the greater.

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







SEPTEMBER 22nd, 9AM

SCALE 1: 250

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

SHADOW RAST OVER THE PRIVATE OPEN SPACE & DRIVEWAY OF 162 MOUNTAIN VIEW ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACYRLIC PORTIONS OF NOISE WALL.

THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE CVERLOOKING CONCERNS

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 CASTEC 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,

WATSONIA PORTAL NORTHERN VENTILATION

REVISIONS

STRUCTURE / L.P RD PORTAL

OVERALL PACKAGE KEY PLAN

SCALE 1:15000 DESIGN SUBJECT TO RELEVANT CODES AND STANDARDS

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O North East Link Program DRAFTING E. GRIFFITH 14.10.2022 CHECKED BY 12.10.2022 01.09.2022 FOR REVIEW FOR REVIEW DESIGNED BY M. KEDDELL 14.10.2022 Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Security 14.10.2022 Are subject to obligations of confidentiality in relation to this document, and must rely also provided the processing of the processing or the processing or the processing objects of this document, and must rely absolutely on their own opinion and professional advice. 10.08.2022 23.06.2022 02.05.2022 CHECKED BY VERIFIED BY R. WOOD PUBLIC EXHIBIT DESCRIPTION DATE APPROVED R. NAYLOR

LOWER PLENTY SUBSTATION

/ IUK EEL BRIDGE

SEPTEMBER 22nd, 12PM SCALE 1: 250 SOUTHERN INTERFACE ZONE REQ. LP4 | REG. EMF, EPR .P4 SHADOW ANALYSIS ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE & DRIVEWAY OF 162 MOUNTAIN VIEW ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS ALLUSTRATED DO NOT INCLUDE ACYRLIC PORTIONS OF NOISE WALL.

MOTORWAY CONTROL CENTRE

SOUTHERN VENTILATION STRUCTURE

Conditions of Use

DRAWN: J. HO

SIZE: A1

SCALE: As indicated

APPROVALS

SOUTHERN INTERFACE ZONE 3

SOUTHERN INTERFACE ZONE 2

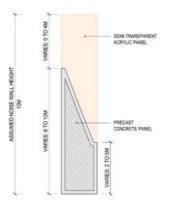
ERN INTERFACE ZONE 1

SOUTHERN INTERFACE ZONE 4

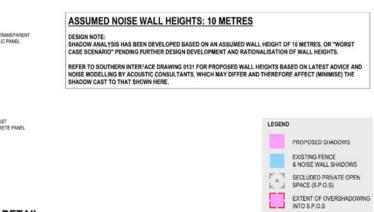
REFER DRG-0421 FOR A DETAILED ANALYSIS

SOUTHERN INTERFACE ZONE 5

SCALE 1:250 SOUTHERN INTERFACE ZONE REQ. LP4 | REG. EMF, EPR LP4 ADDITIONAL SHADOW CAST OVER THE PRIVATE OPEN SPACE & DRIVEWAY OF 162 MOUNTAIN VIEW ROAD. THE MAJORITY OF NEW SHADOW CAST OVERLAPS WITH EXISTING SHADOWS. NOTE SHADOWS ILLUSTRATED DO NOT INCLUDE ACYRLIC PORTIONS OF NOISE WALL. OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS



NOISE WALL TYPICAL DETAIL SCALE 1:100



NORTH EAST LINK TUNNELS UDLP UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 3

NORTH TRANSPORT INFRASTRUCTURE **EAST LINK**

otective Marking: OFFICIAL : Sensitive CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

PROPOSED WALL EXTENT





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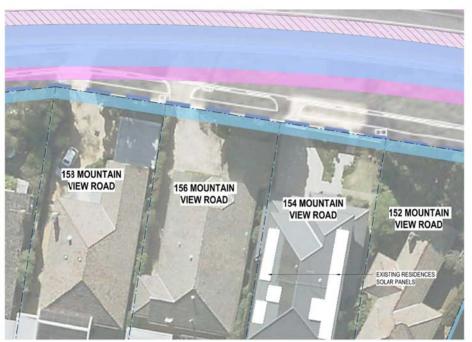
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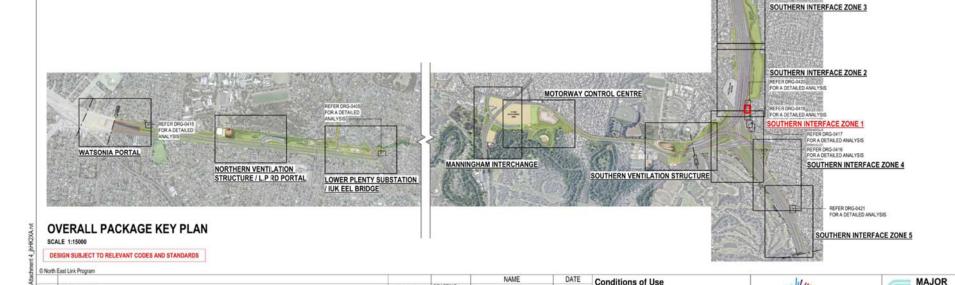
EAST LINK

PROJECT CONTRACT:

TRANSPORT INFRASTRUCTURE

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CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt



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SIZE: A1

SCALE: As indicated

DRAWN: J. HO

DRAFTING CHECKED BY E. GRIFFITH

CHECKED BY VERIFIED BY R. WOOD

DESIGNED BY M. KEDDELL

APPROVED R. NAYLOR

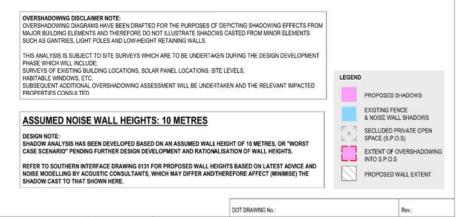
APPROVALS

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NORTH EAST LINK TUNNELS UDLP ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE 1 ANALYSIS - PART 4

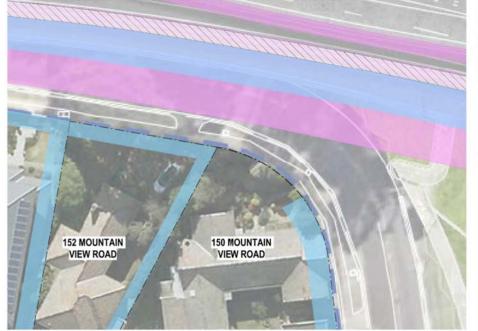
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SOUTHERN INTERFACE ZONE 2 ANALYSIS





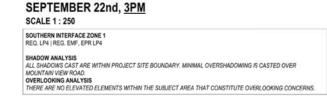
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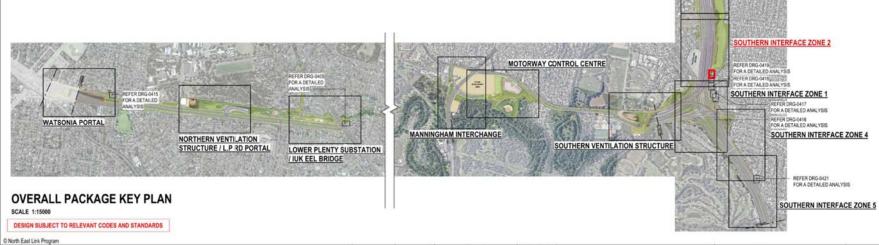
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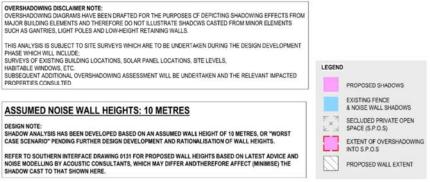












DESIGN SUBJECT TO RELEVA	ANT CODES AND STANDARDS						The war was										
th East Link Program							No.								DOT DRAWING No.:	Rev	M2
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FOR REVIEW		14.10.2022	DRAFTING	E. GRIFFITH			oses of the North East Link				TRANSPORT	NORTH					<i>[</i> **
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FOR REVIEW		01.09.2022		M. KEDDELL	14.10.2022	Recipients of this document:		NORTH EAST LINK			AUTHORITY	PROGRAM		JDLP OVERSHA	DOWING DIAGRAM SOUTHER!	√ INTERFA	ACE ZONE
FOR REVIEW		10.08.2022	ENGINEERING	R. MARSH	14.10.2022	 Are subject to obligations of confidentiality in rel 	elation to this document, and	Welling Mills		-	Control of the Contro	GPO BOX 4509.			2 ANALYCIC		
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/	DESCRIPTION	DATE	APPROVED	R. NAYLOR	14.10.2022	absolutely on their own opinion and professional a	advice			Protective	Marking: OFFICIAL: Se	nsitive	PROJECT CONTRACT:	NELP DRAWI		SUIT. CODE	REVISION
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SOUTHERN INTERFACE ZONE 3

SOUTHERN INTERFACE ZONE 5 ANALYSIS

SOLAR PANELS

27 ORION

STREET

SEPTEMBER 22nd, 9AM SCALE 1: 250

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

FOR REVIEW FOR REVIEW

PUBLIC EXHIBIT

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SHADOW ANALYSIS
MINIMAL SHADOWING OVER KOONUNG CREEK TRAIL APPROACHING 27 & 29 ORION STFEET. OVERLOOKING ANALYSIS
THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE CVERLOOKING CONCERNS.

DESCRIPTION

REVISIONS

29 ORION

STREET



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

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14.10.2022 Are subject to obligations of confidentiality in relation to this document, and information handling obligations indicated by the Protective Marking/Socialy 14.10.2022

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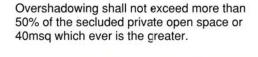
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THERE ARE NO ELEVATED ELEMENTS WITHIN THE SUBJECT AREA THAT CONSTITUTE OVERLOOKING CONCERNS.



SOUTHERN INTERFACE ZONE 3





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 OPION 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

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



CHECKED BY E. GRIFFITH

DESIGNED BY M. KEDDELL

APPROVED R. NAYLOR

APPROVALS

CHECKED BY VERIFIED BY R. WOOD

12.10.2022 01.09.2022

10.08.2022

23.06.2022 02.05.2022

DATE

STREET

OVERSHADOWING DISCLAIMER NOTE: OVERSHADOWING DIAGRAMS HAVE BEEN DRAFTED FOR THE PURPOSES CF 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 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

PROJECT CONTRACT:

NORTH

EAST LINK

TRANSPORT INFRASTRUCTURE

rotective Marking: OFFICIAL : Sensitive

CAD FILE: NEL-CNT-WMI-2990-UUD-MD3.rvt

DESIGN NOTE: STADOW ANALLYSIS 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.



NORTH EAST LINK TUNNELS UDLP

ATTACHMENT 4 - ARCHITECTURE AND URBAN DESIGN UDLP OVERSHADOWING DIAGRAM SOUTHERN INTERFACE ZONE

5 ANALYSIS

NELP DRAWING No.:





