

**VISUAL IMPACT ASSESSMENT** 

DEVELOPMENT APPLICATION
27 EAST ESPLANADE, MANLY 2095



Project Type: Development Application

Lot: SP 39838

Address: 27 East Esplanade, Manly 2095

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#### 1. INTRODUCTION

### 1.1. Scope and Purpose of Report

This Visual Impact Report has been prepared on behalf of Manly Property Group No.2 Pty Ltd (the Applicant) and is submitted to Northern Beaches Council (Council) in support of a Development Application (DA) at 27 East Esplanade, Manly (subject site), which captures the land parcel SP 39838.

The report provides an analysis of the proposed development's visual impact in relation to its visual and statutory contexts and is to be read in conjunction with the drawings and other material submitted with the development application.



Figure 1 – Site location shown in yellow overlay.

## 1.2. The Proposed Development

The proposed development comprises of the demolition of the existing dwelling and subsequent construction of an architecturally designed residential flat building, which is permitted within the R3 zone and aligns with the zone objectives.

#### 1.2.1. The Site and existing property

The subject site is located within the Northern Beaches Local Government Area (LGA) and is located at 27 East Esplanade, Manly and is legally described as SP39838. It has a primary frontage to East Esplanade of approximately 16m. The subject site is 520m2 in area and is generally rectangular in shape. In its current state, the subject site comprises an existing brick RFB, which is three (3) storeys over basement in height.

Directly adjoining the subject site to the north is a three-storey residential flat building at 2 Victoria Parade. Manly, identified as a heritage item of local significance (Item No. 1149) under MLEP2013. To the south is a three-storey residential flat building at 26 East Esplanade, Manly, with a six-storey residential flat building at 24 East Esplanade located beyond. To the east is a four-storey over basement residential flat building at 6 Victoria Parade, Manly.



Figure 2 – Subject site shown in yellow overlay.

### 1.3. Proposed Land Use and Built Form

This DA seeks development consent for the demolition of the existing structures and construction of an eight (8) storey residential flat building with basement parking and associated landscaping.

The development particulars are as follows:

- · Demolition of existing residential flat building;
- · Tree removal;
- Construction of an eight (8) storey residential flat building over three (3) basement levels and associated landscaping, comprising eight (8) residential units of which two (2) will be affordable housing) comprising the following mix:
- One (1) 1 bedroom unit;
- One (1) 2 bedroom unit; and
- Six (6) 3 bedroom units.
- Provision of private open space in the form of balconies;
- Three (3) level of basement car parking for 18 cars, including
- 17 residential car parking space:

For more information read the S.E.E document by Willowtree Planning which accompanies this application.



Figure 3 – East elevation of the proposed design by MHNDUnion Architects.

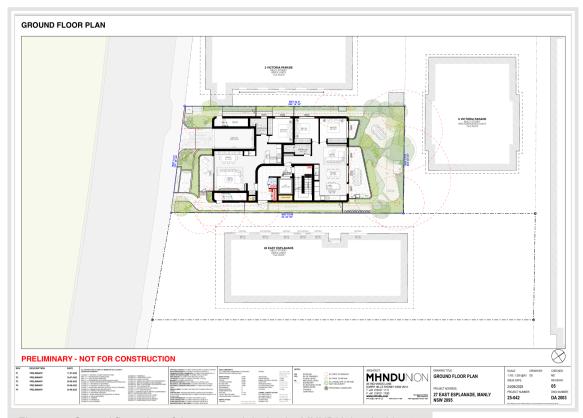


Figure 4 – Ground floor plan of the proposed design by MHNDUnion Architects.

## 1.4. Methodology of Assessment

The methods used by Urbaine, for the generation of photomontaged images, showing the proposed development in photomontaged context are summarised in an article prepared for New Planner magazine in December 2018 and contained in Appendix A. A combination of the methods described were utilised in the preparation of the photomontaged views used in this visual impact assessment report.

#### 1.4.1. Process

Survey, plans, elevations and model of the proposal were sourced from the architect .B.Meverson (MHNDUNION) and aligned to the scene using the survey information from LTS Surveyors, which accompanies the DA

A drone assessment was undertaken and triangulated into a 3D point cloud which was aligned to ground control points using a RTK GNSS rover with NTRIP corrections. This was placed into the scene and further verified against the survey DWG. A wider area Lidar model from Aerometirx was also aligned to the scene

Virtual cameras were placed into the 3D model to match various selected viewpoints, in both height and position. These locations were measured on-site using a survey provided. From these cameras, rendered views have been generated and photomontaged into the existing photos, using the ground plane for alignment at standing height 1600mm.

The final selection of images shows these stages, including the block montage of the original development application and concluding with an outline, indicating the potential visual impact and view loss. For the purposes of statutory requirements, the images within the report are of a standard lens format.

## 1.4.2. Assessment Methodology

There are no set guidelines within Australia regarding the actual methodology for visual impact assessment, although there are a number of requirements defined by the Land and Environment Court (LEC) relating to the preparation of photomontages upon which an assessment can be based.

Where a proposal is likely to adversely affect views from either private or public land, Council will give consideration to the Land and Environment Court's Planning Principles. For view sharing from private locations Tenacity Consulting v Warringah Council [2004] NSWLEC 140 'planning principle' can be used or Rose Bay Marina Pty Limited v Woollahra Municipal Council & Anr [2013] NSWLEC 1046 'planning principle' for public domain views.

The Tennacity Planning Principle establishes a four-step assessment to assist in deciding whether or not view sharing is reasonable:

- Step 1: assessment of views to be affected.
- Step 2: consider from what part of the property the views are obtained.
- · Step 3: assess the extent of the impact.
- Step 4: assess the reasonableness of the proposal that is causing the impact

The planning principle for public domain views adopted in Rose Bay Marina involves a two stage inquiry: the first factual, followed by a second, analytical requiring both quantitative as well as qualitative assessment.

However, there is no peer review system for determining the accuracy of the base material used for visual impact assessments. As a result, Urbaine Design Group provides a detailed description of its methodologies and the resultant accuracy verifiability – this is contained within figure 9.

The methodology applied to the visual assessment of the current design proposal has been developed from consideration of the following key documents:

- · Environmental Impact Assessment Practice Note, Guideline for Landscape Character and Visual Impact Assessment (EIA-N04) NSW RMS (2013);
- Visual Landscape Planning in Western Australia, A Manual for Evaluation, Assessment, Siting and Design, Western Australia Planning Commission (2007);
- Guidelines for Landscape and Visual Impact Assessment, (Wilson, 2002);

In order to assess the visual impact of the Design Proposal, it is necessary to identify a suitable scope of publicly accessible locations that may be impacted by it, evaluate the visual sensitivity of the Design Proposal to each location and determine the overall visual impact of the Design Proposal.

Accessible locations that feature a prominent, direct and mostly unobstructed line of sight to the Project are used to assess the visual impact of the Design Proposal. The impact to each location is then assessed by overlaying an accurate visualisation of the new design onto the base photography and interpreting the amount of view loss in each situation, together with potential opportunities for mitigation.

Views of high visual quality are those featuring a variety of natural environments/landmark features, long range, distant views and with no, or minimal, disturbance as a result of human development or activity. Views of low visual quality are those featuring highly developed environments and short range, close distance views, with little or no natural features.

Visual sensitivity is evaluated through consideration of distance of the view location to the site boundary and also to proposed buildings on the site within the Design Proposal. Then, as an assessment of how the Design Proposal will impact on the particular viewpoint. Visual sensitivity provides the reference point to the potential visual impact of the Design Proposal to both the public and residents, located within, and near to the viewpoint locations.



Figure 5: Selected private viewpoint locations for visual impact assessments with site outlined in red.

## 1.4.3. Site Inspections

A site inspection was undertaken to photograph the site and surrounding area to investigate:

- The topography and existing urban structure of the local area
- The streetscapes and houses most likely to be affected by the Proposal
- Important vistas and viewsheds
- · Other major influences on local character and amenity

The map, see figure 5, indicates chosen locations for site photography.

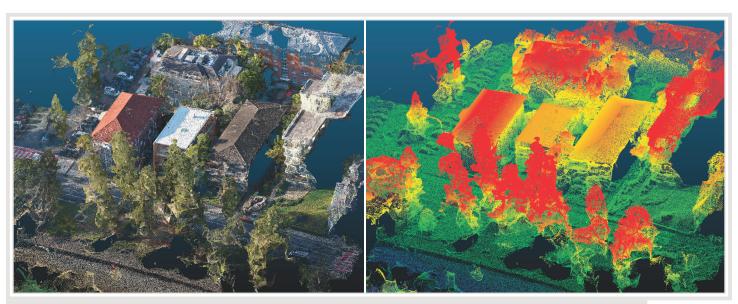


Figure 6: Neighbourhood with gradient ramp - Proposed site ridge height and above in yellow to red, below in green - blue.

## 1.4.4. Contextual Analysis:

An analysis was undertaken of the visual and statutory planning contexts relevant to the assessment of visual impacts in a Development Application.

## 1.4.5. Visual Impact Analysis:

The visual impacts of the proposed development were analysed in relation to the visual context and assessed for their likely impact upon the local area. High value views are accessed to the south with no access to views over site from the northerly neighbors. Higher elevated residences to the east and west orientate to the south with only a few views accessed over the proposed site which would be heavily screened by Norfolk Pines and clipped by other low and hi rise buildings.

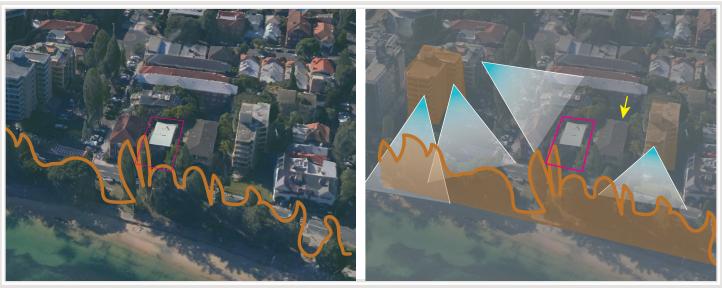


Figure 7: Neighbourhood 3d Model with primary viewpoints - Screening elements in orange, Subject Site in magenta, yellow no views.

## 1.4.6. Statutory Planning Assessment:

The results of the local view impact assessment are included in Section 3 of this report.

#### 1.5. References

The following documentation and references informed the preparation of this report:

- Design Documentation
- The design drawings and information relied upon for the preparations of this report were prepared by B.Meyerson (MHNDUNION)
- Photography by Urbaine Group
- Photomontages by Urbaine Group
- · S.E.E by Willow Tree Planning
- · Survey by LTS Surveyors



Figure 8: Land zoning map, indicating site with yellow outline.

#### 2. THE SITE AND THE VISUAL CONTEXT

Visual impacts occur within an existing visual context where they can affect its character and amenity. This section of the report describes the existing visual context and identifies its defining visual characteristics.

Defining the local area relevant to the visual assessment of a proposed development is subject to possible cognitive mapping considerations and statutory planning requirements. Notwithstanding these issues, the surrounding local area that may be affected by the visual impact of the proposed development is considered to be the area identified on in the topographical area map, Figure 9.

Although some individuals may experience the visual context from private properties with associated views, the general public primarily experiences the visual context from within the public realm where they form impressions in relation to its character and amenity. The public realm is generally considered to include the public roads, reserves, open spaces and public buildings.

The visual context is subject to "frames of reference" that structure the cognitive association of visual elements. The "local area" (as discussed above) provides one such frame of reference. Other "frames of reference" include the different contextual scales at which visual associations are established and influence the legibility, character and amenity of the urban environment. Within the scope of this report three contextual scales are considered relevant to the analysis of the visual context and the visual impact of the proposed development.

The 'Street Context' provides a frame of reference for reviewing the visual relationship of the new development (and in particular its facades) in relation to the adjoining pedestrian spaces and roads. Elements of the development within this frame of reference are experienced in relatively close proximity where, if compatible with the human scale they are more likely to facilitate positive visual engagement and contribute to the "activation" of adjoining pedestrian spaces.

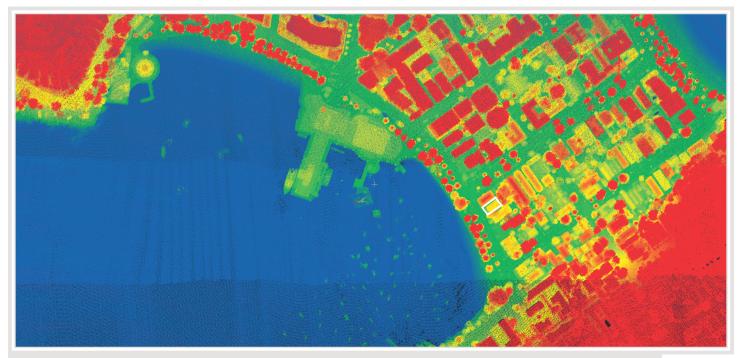


Figure 9: Lidar Point cloud including trees and buildings with gradient ramp to show topography, propsed site in white outline.

The 'Neighbourhood Context' provides a broader frame of reference that relates the appearance of the development as a whole to the appearance of other developments within the local area. As a frame of reference, it evolves from the understanding gained after experiencing the site context and the low density of development. Within this context the relative appearance, size and scale of different buildings are compared for their visual compatibility and contribution to a shared character from which a unique "sense of place" may emerge. This frame of reference involves the consideration of developments not necessarily available to view at the same time. It therefore has greater recourse to memory and the need to consider developments separated in time and space. The neighbourhood context is relevant to the visual 'legibility' of a development and its relationship to other developments, which informs the cognitive mapping of the local area to provide an understanding of its arrangement and functionality.

The 'Town / City Context' provides a frame of reference that relates the significance of key developments or neighbourhoods to the town as a whole. The contribution that distinctive neighbourhoods make (or may potentially make) to the image of the city can be affected by the visual impact of an individual development through its influence on the neighbourhood's character and legibility. Within this context, it is also important to be aware of other proposed developments in the area.

#### 2.1. The Visual Context

The immediate surroundings of the site feature a diverse range of residential options, including terrace houses, apartments within residential complexes, and standalone dwellings. These buildings showcase a blend of architectural styles, encompassing both traditional and contemporary designs. The area's development history spans different eras, leading to a mixture of construction materials and finishes. As a result, the buildings exhibit varying setbacks from the public domain, contributing to the overall eclectic character of the neighbourhood.

The locality has a residential, leafy character characterised by a streetscape quality of side setbacks and predominant landscape. The building heights reinforce the existing cityscape in response to the undulating character of the area.

#### 2.2. Visual Features and Local Landmarks

Particular elements in the urban pattern, through either location and/or built form provide visual nodes and landmarks that assist in differentiating locations within the broader visual context. The following visual nodes are considered to be of the greatest significance in terms of their contribution to the character and legibility of the local and surrounding area:

The focus of all the properties is to the the south and south west to the view over the water of North Harbour to Dobroyd Head to harbour entrance, middle head and eastern suburbs in the background beyond this.

## 2.3. Streetscapes

Within the immediate and surrounding areas, the streetscapes are typical of the suburbs of beachside suburbs being a mixture of individual houses and apartments blocks of varying scales, commercial buildings and multistorey hotels. The landscaping is predominantly mature and well established.

### 2.4. The selected view locations for the local view analysis

As a result of the site's topography, the visual impact is primarily relevant to the residential properties to the south and east of the subject site. A large number of site photos were taken and a smaller number of specific views selected from these, relevant for private viewing locations, as described above. The selected photos are intended to allow consideration of the visual and urban impact of the new development at a local level and, specifically, from the neighbouring properties and public viewing locations.

#### 2.5. Context of View

The context of the view relates to where the proposed development is being viewed from. The context is different if viewed from a neighbouring building, or garden, as is the case here, where views can be considered for an extended period of time, as opposed to a glimpse obtained from a moving vehicle.

#### 2.6. Extent of View

The extent to which various components of a development would be visible is critical. For example, if the visibility assessment is of a multi-storey development proposal in a low-density context of 2 to 3 storey buildings, it would be considered to have a significant local scale visual impact, whereas if a development proposal is located in an area of a CBD containing buildings of a similar scale and height, it may be considered to have a lower scale visual impact.

The capacity of the landscape to absorb the development is to be ranked as high, medium or low, with a low ranking representing the highest visual impact upon the scenic environmental quality of the specific locality, since there is little capacity to absorb the visual impact within the landscape.

#### 3. VISUAL IMPACT OF THE PROPOSED DEVELOPMENT

#### 3.1. Visual Impact Assessments viewpoint locations

Visual Impact Assessments from 11 public locations

#### 3.1.1. Method of Assessment

In order to allow a quantitative assessment of the visual impact locations where view impact and view loss,

a Canon EOS Full Frame Digital Camera with fixed focal length 24mm lens was used to take all viewpoint photos, at an eye level of 1600mm.

The photos include location descriptions, to be read in conjunction with the site map, contained in Appendix A. Additionally, information is supplied as to the distance from the site boundary for each location and the distance to the closest built form is provided in Section 3.1.2 below.

To assess the visual impact, there are 2 relevant aspects - view loss of actual substance (landscape, middle and distance view elements etc.) and also direct sky view loss. To a large extent, the value associated with a view is subjective, although a range of relative values can be assigned to assist with comparing views. Figure 10 is a scale of values from 0 to 15, used to allow a numeric value to be given to a particular view, for the purposes of comparison.

On the same table are a series of values, from zero to 15, that reflect the amount of visual impact.

The second means of assessment relates to assigning a qualitative value to the existing view, based on criteria of visual quality defined in the table – see figure 9.



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The % visual content is then assessed, together with a visual assessment of the new development's ability to blend into the existing surroundings.

TENACITY / SCALE / VALUE		SCALE / VALUE	VISUAL IMPACT	VISUAL QUALITY
₽ E	0	NEGLIGIBLE	No negative impact on the pre-existing visual quality of the view	N/A
NEGILIBLE	1	LOW	A minor negative impact on the pre- existing visual quality of the view  Examples: minor impact on natural landscapes no impact on iconic views impact on small number of receivers significant distance between the development and receiver	Predominant presence of low quality man made features  Minimal views of natural formations (e.g. cliffs, mountains, coastlines, waterways, ridges etc.)  Uniformity of land forms
	2			
	3			
MINOR	4			
	5			
	6		A medium negative impact on the pre- existing visual quality of the view	Presence of some natural features mixed with manmade features  Some views of distinct natural formations (e.g. cliffs, mountains, coastlines, waterways, ridges etc.)
<u> </u>	7			
MODERATE	8	MEDIUM	Examples: moderate impact on iconic views or natural landscapes impact on moderate	
	9		number of receivers located nearby the receiver	
DEVASTATING	10			
	11			Predominantly natural features
	12		A high negative impact on the pre- existing visual quality of a view	Minimal manmade features, however if present of a high
	13	HIGH	Examples: loss of iconic view impact on significant number of receivers owershadowing effect directly adjacent	architectural standard Significant views of distinct natural formations (e.g. cliffs, mountains,
	14		the receiver	coastlines, waterways, ridges etc.) Presence of iconic regional views of landmark features
	15			

Figure 10. Urbaine Design Group Assessment Table

# 3.1.2. Assessment at selected viewpoints



Existing site photo

From standing position on East Esplanade coastal promenade RL + 3.42m - Distance to boundary 176.47m - Bearing direction 12.6

Camera - Canon RP Lens - 24mm



Photomontage of Proposal





Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 30%
- Visual impact ratio view loss (including buildings) : sky view loss: 0% : 100%
- Existing Visual Assessment Scale no: 12 /15 & Visual Impact Assessment Scale no: 7 /15

This is a static, public viewpoint, taken from the East Esplanade coastal promenade at East Manly Cove Beach, oriented northward towards the subject site. In the foreground, a pedestrian walkway along the waterfront of East Manly Cove Beach. The beach seamlessly merges into the water to the northwest, a stone retaining wall provides structural support along the pathway's edge in the midground with the renowned Norfolk Pines of the Northern Beaches rising up behind. To the east of this vantage point lies East Esplanade Park, while further north-northwest, the rooflines of residential buildings along East Esplanade are screened though discernible. Additionally, as the view extends further north, in the background Manly Wharf, is partially obscured by tall pine trees.

The visual impact from this location, is the increased mass and change to the skyline with the view loss consisting of existing buildings to the north and the sky above this. The existing, mature trees both on the site and within East Esplanade, provide significant screening to the new proposal and from this perspective, marries with the height.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

· Value of view: High

· View location: Public Pavement • Extent of impact: Minor-Moderate

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position in the boat launch section of the Manly Yacht Club RL + 3.32m - Distance to boundary 267.57m - Bearing direction 28.1

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 35%
- Visual impact ratio view loss (including buildings) : sky view loss: 0% : 100%
- Existing Visual Assessment Scale no: 11/15 & Visual Impact Assessment Scale no: 5/15

This is a static, public viewpoint taken from Manly Yacht Club facing north, towards the subject site. In the foreground is a prominent boat launch area that slopes gently towards the water, In the mid ground, floating docks extend into water, accommodating various boats and sail boats at mooring. Beyond the docks, portions of the shoreline at East Manly Cove can be observed. Across the water, the skyline of the residential area along East Esplanade, characterized by multi-storey buildings to the north is also discernible. Furthermore, to the northwest, Manly Wharf is also visible.

The visual impact from this location, is the increased mass and change to the skyline, though matches the flow of building heights from the west to east. The view loss is confined to the sky above the subject site. The locally iconic Norfolk pines provide significant screening to the new proposal.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: High

View location: Boat LaunchExtent of impact: Minor

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position on East Esplanade public footpath RL + 9.17m - Distance to boundary 164.72m - Bearing direction 3.1°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 40%
- Visual impact ratio view loss (including buildings) : sky view loss: 0% : 100%
- Existing Visual Assessment Scale no: 11/15 & Visual Impact Assessment Scale no: 6/15

This is a static, public viewpoint taken from an elevated pathway along East Esplanade, directed toward the shoreline of East Manly Cove beach and the subject site to the north. The immediate foreground is characterized by dense and diverse vegetation in the northewst and the lower promenade. To the northwest in the foreground Manly Wharf is partially also visible, then as the view moves north, the crescent-shaped shoreline of East Manly Cove beach and East Esplanade Park. Behind the rooflines of residential buildings along East Esplanade are discrenible, partially obscured by the large Norfolk Pines.

The visual impact of the new proposal from this location, is consisting of is the increased mass and change to the skyline, though this is significantly screened by existing mature trees. The perspective from this distance results in an observed roofline, of the new proposal, being only marginal higher than that of the existing skyline, ensuring minimal sky view loss above the site.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

· Value of view: High

View location: Public PavementExtent of impact: Minor-Moderate

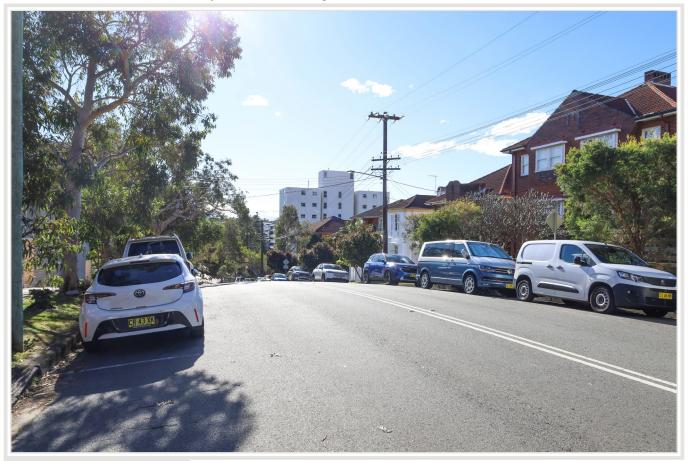
Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



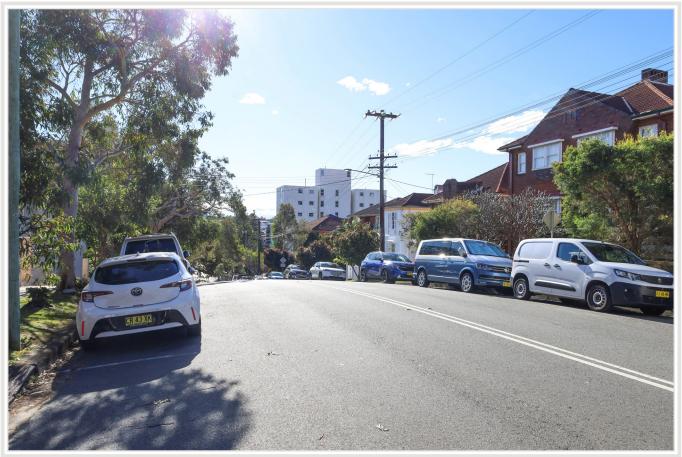
Existing site photo

From standing position on Osborne Rd near Addison Rd. RL + 24.57m - Distance to boundary 264.42m - Bearing direction 337.8°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 5%
- Visual impact ratio view loss (including buildings): sky view loss: 100%: 0%
- Existing Visual Assessment Scale no: 6/15 & Visual Impact Assessment Scale no: 1 /15

This is a static, public viewpoint taken at the roundabout at the junction of Osborne Rd and Addison Rd, oriented north towards the subject site. The perspective presents an urban environment characterized by a gentle incline. The primary topographical feature is the notable longitudinal slope of Osburne Rd. On the north-northwestern side, there are tall, mature trees lining Osburne Rd., while, low-rise residential buildings are aligned on the north-northeastern side of the road partially concealed by moderately mature trees. The background features taller, multi-storey buildings at No. 1 Osborne Rd, with the three towers visually marking the elevation of the area.

The visual impact from this location is not very discernible among the existing mature trees both on the site and within Osburne Rd provide significant screening to the proposal. The three towers of residential buildings at No. 1 Osborne Rd diminish the visual impact considerably.

## Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: Low-to-Medium.View location: Public Pavement

• Extent of impact: Minor

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position on the eastern pedestrian pathway on E. Esplanade RL + 8.77m - Distance to boundary 137.36m - Bearing direction  $340.8^\circ$ 

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 60%
- Visual impact ratio view loss (including buildings) : sky view loss: 65% : 35%
- Existing Visual Assessment Scale no: 8 /15 & Visual Impact Assessment Scale no: 9 /15

This is a static, public viewpoint taken from East Esplanade, the road gently descends toward the north and subject site. To the northwest Esplanade park and the shoreline of East Manly Cove Beach, offering minor water view and glimpses Manly Wharf in the background. The predominant vegetation along East Esplanade consists of large Norfolk pine trees screening the further distance views. Low-rise residential structures can be observed on the northeastern side of East Esplanade.

The visual impact of the new proposal from this location, is consisting of is the increased height and change to the skyline which is exaggerated due to the perspective. The view loss is some of the local buildings along the street to the sky above the subject site.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: Medium.

· View location: Public Pavement Extent of impact: Moderate

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position on Ashburner St facing north at East Esplanade RL + 5.39m - Distance to boundary 84.77m - Bearing direction 337.6°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 40%
- Visual impact ratio view loss (including buildings) : sky view loss: 5% : 95%
- Existing Visual Assessment Scale no: 7 /15 & Visual Impact Assessment Scale no: 8 /15

This is a static, public viewpoint, taken from Ashburner Street junction facing north towards east Esplanade and the subject site. In the foreground to the north multi dwelling residents typical of the area and as the view moves into the background, low-rise commercial building increasing in size as the road meets the Manly Corso. To the west Esplanade park and the shoreline of East Manly Cove Beach, offering glimpses of Manly Wharf of which all are heavily screened by the "Northern Beaches iconic" large Norfolk pines.

The visual impact of the new proposal from this location, is consisting of is the increased height and change to the skyline which is exaggerated due to the perspective. The existing buildings within East Esplanade, provide significant screening to the lower levels of the new proposal. The view loss is contained to the sky above the subject site.

## Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

· Value of view: Medium.

· View location: Public Pavement • Extent of impact: Moderate

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position on dock 3 of Manly Wharf RL + 4.09m - Distance to boundary 171.02m - Bearing direction 100.2°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal





Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 55%
- Visual impact ratio view loss (including buildings) : sky view loss: 5% : 95%
- Existing Visual Assessment Scale no: 12/15 & Visual Impact Assessment Scale no: 9/15

This is a static, public viewpoint from dock 3 Manly Wharf, oriented northwest towards the subject site. The view looks out over the waters of Manly Cove, in the midground, the shoreline is flanked by the East Esplanade promenade, marking the boundary between the water and the land. A continuous row of Norfolk pines trees offering vertical emphasis acts as a screen with the residential buildings situated behind them popping up behind.

The visual impact of the new proposal from this location is an increased mass in the skyline, while the view loss is almost entirely to sky. The existing, mature trees along the East Esplanade provide significant screening to the lower levels of the new proposal while from this angle the proposal fills a gap providing a sense of continuity in height.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

· Value of view: High

· View location: Public Wharf

• Extent of impact: Moderate-Severe

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position at Wentworth St at its junction with East Esplanade RL + 7.12m - Distance to boundary 159.28m - Bearing direction 139.9°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 50%
- Visual impact ratio view loss (including buildings) : sky view loss: 15% : 85%
- Existing Visual Assessment Scale no: 7/15 & Visual Impact Assessment Scale no: 9 /15

This is a static, public viewpoint taken from a street-level perspective of Wentworth St at its intersection with East Esplanade, oriented towards the east-southeast. In the foreground, a pedestrian crossing with low rise commercial and apartment buildings. In the midground, the road gently arcs southeast towards the subject side with the established trees along East Esplanade Park parallel to the street. To the southeast across the park, a portion of the shoreline and water of East Manly Cove beach is slightly visible.

The visual impact of the new proposal from this location, is consisting of is the increased height and change to the skyline which is exaggerated due to the central location in the image and single point perspective. The view loss is to some of the local buildings and trees behind the site and to the sky above.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

· Value of view: Medium.

· View location: Public Pavement • Extent of impact: Moderate-Severe

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position at sidewalk on East Esplanade RL + 8.85m - Distance to boundary 285.57m - Bearing direction  $134.09^\circ$ 

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 10%
- Visual impact ratio view loss (including buildings) : sky view loss: 50% : 50%
- Existing Visual Assessment Scale no: 6 /15 & Visual Impact Assessment Scale no: 4 /15

This is a static, public viewpoint taken from the sidewalk at West Esplanade. In the foreground is the intersection at which Belgrave St meets East Esplanade and West Esplanade. In the midground, to the southeast, stands a mixed-use building that encompasses both commertial and residential units, situated at the corner of East Esplanade and Belgrave St. As the view extends down the road, a series of residential structures align with a consistent roofline and a mix of large trees define the skyline with the odd building along Addison Road in the far distance above Manly Wharf.

The visual impact from this location is minimal with the existing mature trees both on the site and within East Esplanade provide significant screening to the proposal. The vantage point from this distance leads to a partly visible roofline of the new proposal, such that only the upper levels are observable, thereby minimizing any loss of sky view above the site.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: Low-to-Medium.View location: Public Pavement

• Extent of impact: Minor

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position on roundabout featuring Victoria Parade and Darley Rd RL + 5.91m - Distance to boundary 108.98m - Bearing direction  $219.8^\circ$ 

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 20%
- Visual impact ratio view loss (including buildings) : sky view loss: 5% : 95%
- Existing Visual Assessment Scale no: 6 /15 & Visual Impact Assessment Scale no: 6 /15

This is a static, public, and dynamic viewpoint. In the foreground the roundabout at Victoria Parade and Darley Rd can be seen which leads southwest down the street to low rise multi dwellings typical of the area. As the view extends further west into the midground, mature trees rise up dominating in height, screening any further distant view.

The visual impact from this location results in an observed roofline of the new proposal rising up higher than that of the existing buildings while view loss is confined to the sky above the site. The existing, buildings both on the site and within Victoria Parade, provide significant screening to the lower levels of the new proposal.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: Low-to-Medium.
View location: Public Pavement
Extent of impact: Minor-Moderate

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area



Existing site photo

From standing position from sidewaalk on Ashburners St RL + 5.73m - Distance to boundary 115.53m - Bearing direction 272.5°

Camera - Canon RP Lens - 24mm



Photomontage of Proposal



Visual impact in cyan with red outline

- Visual impact Amount of new development visible in view 3%
- Visual impact ratio view loss (including buildings) : sky view loss: 5% : 95%
- Existing Visual Assessment Scale no: 5 /15 & Visual Impact Assessment Scale no: 1 /15

This is a static, public viewpoint taken from sidewalk along Ashburners St, at the intersection of Ashburners St and Darley Rd., directed northwest toward the subject site. In the immediate foreground, a two-lane roadway intersected by a pedestrian crossing is evident. To the west, a two-storey residential building located at Darley Rd, No 50-36, can be observed. In the midground, a prominent natural feature is represented by a large, mature tree. The background illustrates a gradual increase in both building height and density, with trees and rooftops prevailing in the skyline.

The visual impact from this location, is barely discernible, the existing structures provide significant screening to the proposal. The two-storey residential buildings at Darley Rd, Nos. 50-36 will diminish the visual impact considerably.

#### Rose Bay Marina Pty Limited v Woollahra Municipal Council Assessment Summary:

Value of view: Low

· View location: Public Pavement • Extent of impact: Negligible

Reasonableness of proposal: Within the context of the development's height compliance, the proposal can be deemed acceptable, being one of the early proposals that will be redefining the area

#### 4. SUMMARY ASSESSMENT

This Visual Impact Assessment from Urbaine Design seeks to provide an objective approach to the likely visual impact on the surrounding areas from the development proposal at 27 East Esplanade, Manly 2095.

This Visual Impact Assessment has undertaken a review of the proposal, within its future setting and concludes that,

- Although there are locations within the vicinity of the site that may experience some view loss (see figure 7), the more significant factor is the visual impact due to the site location on the front row of the Esplanade.
- · The visual impact of the proposed structure sits well in height and mass within the existing skyline of existing buildings and Norfolk pines when viewing from the primary view locations to the south, south east or south west or from the water via boat or wharf.
- The materiality of the new proposal while not shown in the VIA will further ensure the additional visual impact is minimised.

Since the proposal is largely compliant, it satisfies the Council's guildelines for view and visual impact for residents within this area and could be seen as the logical size and shape of future development in the area.

Based on our 3D analysis, photography, and site visit it would be my recommendation that the Development Application be approved on the grounds of an acceptable amount of visual impact and view loss, when assessed against the permissible building envelope for the site.

John Aspinall, Director,

urbaine design group pty ltd

## 5. APPENDICES

APPENDIX A: Assessment Images - panoramic (additional PDF)

APPENDIX B: Aspinall CV

• LEC Guidelines for Photomontages

Visual Impact Assessment Methodology

**APPENDIX C:** Survey

APPENDIX D: Wireframe/alignment images



**5.1. APPENDIX B:** Methodology, C.V and L.E.C Guidelines

# JOHN ASPINALL. director: urbaine design group

## UK Qualifed Architect RIBA BA(Hons) BArch(Hons) Liverpool University, UK.

24 years' architectural experience in London and Sydney. Halpin Stow Partnership, London, SW1 John Andrews International, Sydney Cox and Partners, Sydney Seidler and associates NBRS Architects, Milsons Point Urbaine Pty Ltd (current)

### **Design Competitions:**

UK 1990 - Final 6. RIBA 'housing in a hostile environment'. Exhibited at the Royal Academy, London

UK Design Council – innovation development scheme finalist – various products, 1990.

Winner: International Design Competition: Sydney Town Hall, 2000 Finalist: Boy Charlton Swimming pool Competition, Sydney, 2001 Finalist: Coney Island Redevelopment Competition, NY 2003

Design Tutor: UTS, Sydney, 1997 - 2002

This role involved tutoring students within years 1 to 3 of the BA Architecture course. Specifically, I developed programs and tasks to break down the conventional problem-solving thinking, instilled through the secondary education system. Weekly briefs would seek to challenge their preconceived ideas and encourage a return to design thinking, based on First Principles.

Design Tutor: UNSW, Sydney 2002 - 2005

This role involved tutoring students within years 4 to 6 of the BArch course. Major design projects would be undertaken during this time, lasting between 6 and 8 weeks. I was focused on encouraging rationality of design decision-making, rather than post-rationalisation, which is an ongoing difficulty in design justification.

## **Current Position: URBAINE GROUP Pty Ltd**

Currently, Principal Architect of Urbaine - architectural design development and visualisation consultancy: 24 staff, with offices in: Sydney, Shanghai, Doha and Sarajevo.

Urbaine specialises in design development via interactive 3d modelling.

Urbaine's scale of work varies from city master planning to furniture and product design, while our client base consists of architects, Government bodies, developers, interior designers, planners, advertising agencies and video producers.

URBAINE encourages all clients to bring the 3D visualisaton facility into the design process sufficiently early to allow far more effective design development in a short time frame. This process is utilised extensively by many local and international companies, including Lend Lease, Multiplex, Hassell, PTW, Foster and Partners, City of Sydney, Landcom and several other Governmental bodies. URBAINE involves all members of the design team in assessing the impact of design decisions from the earliest stages of concept design. Because much of URBAINE's work is International, the 3D CAD model projects are rotated between the various offices, effectively allowing a 24hr cycle of operation during the design development process, for clients in any location.

An ever-increasing proportion of URBAINE"S work is related to public consultation visualisations and assessments. As a result, there has also been an increase in the Land And Environment Court representations. Extensive experience in creating and validating photomontaged views of building and environmental proposals. Experience with 3D photomonages began in 1990 and has included work for many of the world's leading architectural practices and legal firms.



Page

### Co-Founder Quicksmart Homes Pty Ltd., 2007 - 2009

Responsible for the design and construction of 360 student accommodation building at ANU Canberra, utilising standard shipping containers as the base modules.

## Design Principal and co-owner of Excalibur Modular Systems Pty Ltd: 2009 to present.

High specification prefabricated building solutions, designed in Sydney and being produced in China.

Excalibur has developed a number of modular designs for instant delivery and deployment around the world. Currently working with the Cameroon Government providing social infrastructure for this rapidly developing country.

The modular accommodation represents a very low carbon footprint solution

## Expert Legal Witness, 2005 to present

In Australia and the UK, for the Land and Environment Court. Expert witness for visual impact studies of new developments.

Currently consulting with many NSW Councils and large developers and planners, including City of Sydney, Lend Lease, Mirvac, Foster + Partners, Linklaters.

Author of several articles in 'Planning Australia' and 'Architecture Australia' relating to design development and to the assessment of visual impacts, specifically related to the accuracy of photomontaging.

Currently preparing a set of revised recommendations for the Land and Environment Court relating to the preparation and verification of photomontaged views for the purposes of assessing visual impact



# VISUAL IMPACT ASSESSMENTS: A REALITY CHECK. BY JOHN ASPINALL.

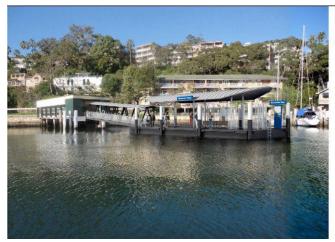


Photomontaged views of new apartment building at Pyrmont: Urbaine

Australia's rapid construction growth over the past 10 years has coincided with significant advances in the technology behind the delivery of built projects. In particular, BIM (Building Information Modelling). Virtual Reality and ever-faster methods of preparing CAD construction documentation.

Alongside these advances, sits a number of potential problems that need to be considered by all of those involved in the process of building procurement. Specifically, the ease with which CAD software creates the appearance of very credible drawn information, often without the thoroughness and deliberation afforded by architects, and others, in years

Nowhere is this more apparent than in the area of visual impact assessments, where a very accurate representation of a building project in context is the starting point for discussion on a project's suitability for a site. The consequences of any inaccuracies in this imagery are significant and far- reaching, with little opportunity to redress any errors once a development is approved.



Photomontaged views of new Sydney Harbour wharves: Urbaine



Urbaine Architecture has been involved in the preparation of visual impact studies over a 20 year period, in Australia and Internationally. Urbaine's Director, John Aspinall, has been at the forefront of developing methods of verifying the accuracy of visualisations, particularly in his role as an expert witness in Land and Environment Court cases.

In Urbaine's experience, a significant majority of visualisation material presented to court is inaccurate to the point of being invalid for any legal planning decisions. Equally concerning is the amount of time spent, by other consultants, analysing and responding to this base material, which again can be redundant in light of the frequent inaccuracies. The cost of planning consultant reports and legal advice far exceeds that of generating the imagery around which all the decisions are being made.

Over the last 10 years, advances in 3d modelling and digital photography have allowed many practitioners to claim levels of expertise that are based more on the performance of software than on a rigorous understanding of geometry, architecture and visual perspective. From a traditional architect'straining, prior to the introduction of CAD and 3d modelling, a good understanding of the principles of perspective, light, shadow and building articulation, were taught throughout the training of architects.

Statutory Authorities, and in particular the Land and Environment Court, have attempted to introduce a degree of compliance, but, as yet, this is more quantitative, than qualitative and is resulting in an outward appearance of accuracy verification, without any actual explanation being requested behind the creation of the work.

Currently, the Land and Environment Court specifies that any photomontages, relied on as part of expert evidence in Class 1 appeals, must show the existing surveyed elements, corresponding with the same elements in the photograph. Often, any surveyed elements can form such a small portion of a photograph that, even by overlaying the surveyed elements as a 3d model, any degree of accuracy is almost impossible to verify. For sites where there are no existing structures, which is frequent, this presents a far more challenging exercise. Below is one such example, highlighted in the Sydney Morning Herald, as an example of extreme inaccuracy of a visual impact assessment. Urbaine was engaged to assess the degree to which the images were incorrect – determined to be by a factor of almost 75%.

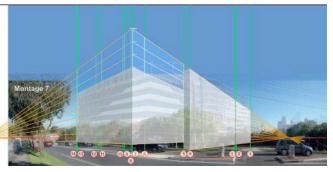


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Key visual location points on site: Urbaine



Photomontage submitted by developer



Assessment of inaccuracy by Urbaine

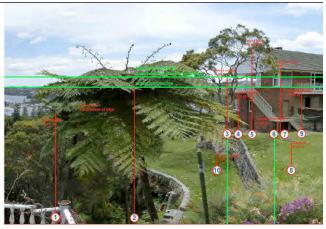
Urbaine has developed a number of methods for adding verification data to the 3d model of proposed buildings and hence to the final photomontages. These include the use of physical site poles, located at known positions and heights around a site, together with drones for accurate height and location verification and the use of landscaped elements within the 3d model to further add known points of references. Elements observed in a photograph can be used to align with the corresponding elements of the new building in plan. If 4 or more known positions can be aligned, as a minimum, there is a good opportunity to create a verifiable alignment.

Every site presents different opportunities for verification and, often, Urbaine is required to assess montages from photographs taken by a third party. In these cases, a combination of assessing aerial photography, alongside a survey will allow reference points to be placed into the relevant 3d model prior to overlaying onto the photos for checking.

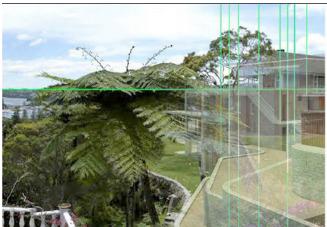
The following example clearly demonstrates this – a house montaged into a view, by others, using very few points of reference for verification. By analysing the existing photo alongside the survey, the existing site was able to be recreated with a series of reference elements built into the model. A fully rendered version of all the elements was then placed over the photo and the final model applied to this. As can be seen, the original montage and the final verified version are dramatically different and, in this case, to the disadvantage of the complainant.



Photomontage submitted by developer



Key visual location points on site: Urbaine



Key points and 3d model overlaid onto existing photo



Final accurate photomontage: Urbaine

Often, Urbaine's work is on very open sites, where contentious proposals for development will be relying on minimising the visual impact through mounding and landscaping. In these cases, accuracy is critical, particularly in relation to the heights above existing ground levels. In the following example, a business park was proposed on very large open site, adjoining several residential properties, with views through to the Blue Mountains, to the West of Sydney. Urbaine spent a day preparing the site, by placing a number of site poles, all of 3m in height. These were located on junctions of the various land lots, as observed in the survey information. These 3d poles were then replicated in the 3d CAD model in the same height and position as on the actual site. This permitted the buildings and the landscaping to be very accurately positioned into the photographs and, subsequently, for accurate sections to be taken through the 3d model to assess the actual percentage view loss of close and distant views.



Physical 3000mm site poles placed at lot corners



3d poles located in the 3d model and positioned on photo



Proposed buildings and landscape mounding applied



Proposed landscape applied – shown as semi-mature



Final verified photomontage by Urbaine

Further examples, below, show similar methods being used to give an actual percentage figure to view loss, shown in red, in these images. This was for a digital advertising hoarding, adjoining a hotel. As can be seen, the view loss is far outweighed by the view gain, in addition to being based around a far more visually engaging sculpture. In terms of being used as a factual tool for legal representation and negotiation, these images are proving to be very useful and are accompanied by a series of diagrams explaining the methodology of their compilation and, hence verifying their accuracy.



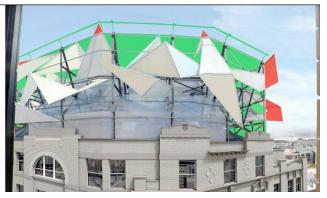
Photomontage of proposed building for digital billboard



Existing situation – view from adjoining hot



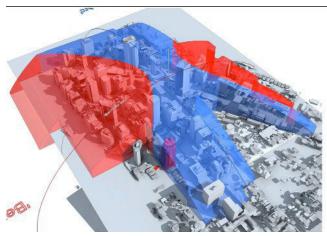
Photomontage of view from hotel

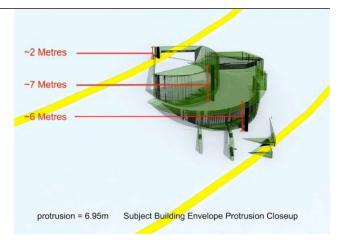


View loss – green = view gain / red = view loss



There are also several areas of assessment that can be used to resolve potential planning approval issues in the early stages of design. In the case below, the permissible building envelope in North Sydney CBD was modelled in 3d to determine if a building proposal would exceed the permitted height limit. Information relating to the amount of encroachment beyond the envelope allowed the architect to re-design the plant room profiles accordingly to avoid any breach.





3d model of planning height zones

Extent of protrusion of proposed design prior to re-design

Urbaine's experience in this field has place the company in a strong position to advise on the verification of imagery and also to assist in developing more robust methods of analysis of such imagery. As a minimum, Urbaine would suggest that anyone engaging the services of

visualisation companies should request the following information, as a minimum requirement:

- 1. Height and plan location of camera to be verified and clearly shown on an aerial photo, along with the sun position at time of photography.
- 2. A minimum of 4 surveyed points identified in plan, at ground level relating to elements on the photograph and hence to the location of the superimposed building.
- 3. A minimum of 4 surveyed height points to locate the imposed building in the vertical plane.
- 4. A series of images to be prepared to explain each photomontaged view, in line with the above stages.

This is an absolute minimum from which a client can determine the verifiability of a photomontaged image. From this point the images can be assessed by other consultants and used to prepare a legal case for planning approval.



# Policy: Use of Photomontages and Visualisation Tools

### Commencement

This policy commences on 17 May 2024 and replaces the policy published 21 August 2013.

# Purpose of the policy

2. This policy is to guide the preparation of photomontages, still images, video images, and other visualisation tools to depict the development in an appeal under the Environmental Planning and Assessment Act 1979, to ensure that the data they present is represented and interpreted accurately, and that their use would assist the Court in determining the appeal.

# **Application**

3. The policy applies to appeals under the EPA Act, where photomontages or other visual tools are to be submitted as part of expert evidence.

### **Definitions**

4. In this Policy:

Appeal means an appeal to the Court under the EPA Act.

CGI means Computer Generated Image.

Commissioner means a Commissioner or Acting Commissioner of the Court.

**Court** means the Land and Environment Court of New South Wales.

**Development** means the development for which consent is sought in the development application that is the subject of the appeal.

EPA Act means the Environmental Planning and Assessment Act 1979.

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Existing Image means an unchanged or unaltered image of the location, viewing angle and approximate conditions on which the proposed development will be overlaid, to convey the issues in dispute.

Judge means a Judge of the Court.

Photomontages means, for the purpose of this policy, any visual tool or aid, whether still image, video, computer generated image, two dimensional (2D) or three dimensional (3D) or other visual means to depict development plans.

**Registrar** means a Registrar of the Court.

RL Reduced Level or Relative Level as defined in Australian Standard® AS1100 Technical Drawings.

## **General principles**

- 5. A photomontage submitted in an appeal should provide to the Judge, Commissioner or Registrar the most accurate visual images of the development in its real-world location, so as to specifically convey the issues in dispute.
- 6. A photomontage must include:
  - 6.1 the existing image;
  - 6.2 a 2D plan and/or elevation showing the location of the camera, target point/viewing angle, and lighting source that corresponds to the location from where the existing image was taken; and
  - the proposed built envelope and key features of the development overlaid on the existing image in the form of a wire frame and/or 'block massing' model to demonstrate the development.
- 7. Where a photorealistic CGI of the development is used:
  - the metadata from the existing image to create an identical 3D computer generated 7.1 camera should be provided;
  - 7.2 the environmental conditions of the CGI should be set to the same parameters as the existing image;
  - 7.3 colour matching in the CGI is to correspond with the existing image; and



- 7.4 the details of the software used in creating the CGI should be stated as part of the submission of the photomontage.
- 8. A detailed summary of the methodology used to create the photomontage should be provided, including:
  - 8.1 survey data that is used to create the photomontages, including the name and qualifications of the surveyor who prepared the survey information from which the underlying data for the wire frame was obtained;
  - 8.2 site specific topographical data used to create the photomontages, including the source and references utilised for the topographical data (for example paper, or survey inputs from file types such as from 'DWG' or 'DXF');
  - 8.3 the camera type, lens, focal length or field of view, and sensor used for the purpose of the photograph from which the existing image has been derived;
  - 8.4 accurate location, alignment and direction of the camera (whether fixed on tripod or drone) and RL of the camera for the existing image;
  - data that was used to prepare the photomontages, such as: 8.5
    - use of relevant plans and data for the depiction of existing buildings or existing elements as shown in the wire frame, block massing model or photorealistic CGI;
    - the means by which terrain has been generated (such as surveyed spot levels and/or contours or by some form of point cloud, or Ground Control Point survey method);
    - 8.5.3 any variables applied to the images such as, time of day, lighting and weather conditions;
    - 8.5.4 consistency in application of scale and interpretation of the relevant data;
    - rationale for selecting a particular view, use of camera lens or conditions in 8.5.5 creating the image. For example, in circumstances where a development is best depicted with an expanded field of view or panoramic view, the type of panorama head and equipment must be stated, in addition to the data above.



- 8.6 where a photomontage has used more than one baseline image to represent the existing context (that is where multiple images are 'stitched together'), this must be stated, and the requirements above should be adapted to convey the key data required to verify its accuracy; and
- 8.7 whether any editing software or other visual manipulation has been used in the preparation of the final image, for example an adjustment in contrast, saturation, tilt shift or the like.

### **Visualisation Tools**

- 9. As technology emerges, the principles outlined above are to be applied. What is important is that the Court has an unaltered and real life baseline, summary of metadata so the veracity of imagery presented can be verified, and application of relevant overlays of the proposed development that assists in the Court's consideration of the real issues in dispute.
- 10. All effort is to be made and the 'best practices' are to be applied when utilising technology for the purposes of visualisation of the development to ensure accuracy and avoid bias of information interpretation.

## **Paperless Hearings**

- 11. Parties should be prepared to display the photomontage electronically if it is to be relied upon, or be the subject of an examination of an expert witness.
- 12. It will be the responsibility of the party whose expert is being examined, to provide a device compatible with courtroom technology which can display the photomontage electronically. This will allow the presiding officer, the experts, lawyers and all other people to be able to see in real time and on a common image, the subject of the examination.

Issued by:

The Honourable Justice Brian J Preston Chief Judge – Land and Environment Court of NSW Date: 17 May 2024

Policy: Use of Photomontages and Visualisation Tools

Doc ID: LEC-PPL15

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**5.2. APPENDIX C:** Survey and camera positions

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DEOWING THE AND LEVELS OVER SP3838 & SP1793
KNOWN AS NO.26-27 EAST ESPLANADE, MANLY ESPLANADE THIS IS THE PLAN REFERRED TO IN MY LETTER DATED: ELECTRONIC EAST  $\Im$ SHEET SHEET VICTORIA PARADE **GDA2020** 

YOU DIG www.byda.com.au 0 2 4 SCALE 1:100 ® A1

22.35 6.74 3.63 5.164.88 7.74 **Elevation** LGA: Northern Beaches Council DATUM: AHD SCALE: N/A SHEET: 1:1 6258719.49 6258409.16 6258338.20 6258455.06 6258506.68 6258344.23 6258418.00 6258628.53 6258800.63 6258600.52 6258703.27 Northing JOB NO: 713 ILM\_EastEsplanade DATE: 26.09.2025 DRAWN: DK CHECK: JA 341218.89 341353.98 341449.80 341435.75 341291.60 341183.53 341478.08 341259.96 341383.53 341504.41 341549.61 Easting **Position** ∞ <del>o</del> 6 2 က 4 2 9 ~ GROUND POSITIONS - GDA 2020 AHD - FOR STANDING HEIGHT +1.6M CAMERA POSITIONS ARE FROM GNSS WITH NTRIP CORRECTIONS OBSERVATIONS WITHIN +/- 0.05M.
LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD)
NOTING GROUND POSITION BUILDING POSITIONS ARE INDICATIVE FOR PRESENTATION PURPOSES.
DATA WAS CAPTURED USING GNSSS RTK ROVER SKETCH PLAN SHOWING INDICATIVE CAMERA POSITIONS FOR -27 East Esplanade, Manly 2095

**5.3. APPENDIX D:** Wireframe images



Viewpoint 01



Viewpoint 02



Viewpoint 03



Viewpoint 04



Viewpoint 05



Viewpoint 06



Viewpoint 07



Viewpoint 08



Viewpoint 09



Viewpoint 10



Viewpoint 11