Appendix H



Sydney Metro City & Southwest Pitt Street South Over Station Development:

Shadow Study

Applicable to:	Sydney Metro City & Southwest	
Author:	Virtual Ideas	
Owner	Sydney Metro	
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1. SEARs Shadow Study

Pitt Street South OSD Concept State Significant Development Application

1.1 Background

This document was prepared by Virtual Ideas and includes a description of the processes used to create the shadow study and illustrate the accuracy of the results.

Virtual Ideas is a highly experienced 3D visualisation company which commonly prepares material for court use, and is familiar with the court requirements to provide 3D visualisation media that will communicate the design and visual impact. Our methodologies and results have been inspected by various court appointed experts in a variety of cases and have always been found to be accurate and acceptable.

In conclusion, it is my opinion as an experienced, professional 3D architectural and landscape renderer that the images provided accurately portray the level of visibility and impact of the built form.

Yours sincerely, Grant Kolln

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1.2 Description of collected data

To create the 3D model and establish accurate reference points for alignment to the photography, a variety of information was collected. This includes the following:

Architectural design of proposed building envelope

Created by: GHD Woodhead Format: Revit model Surveyed data Created by: CMS Surveyors Format: DWG file Site photography Created by: Virtual Ideas (VI Photos) Format: JPEG file

Surveyed 3D city model Created by: AAM Format: 3DS Studio Max file

Approved DA building envelopes Supplied by: GHD Woodhead Format: Revit model

Notes on images

The diagram is also showing the indicative building massing at the following addresses for the purpose of visual assessment of the future surrounding city shadowing:

- Greenland Centre, 115 Bathurst Street
- 116 Bathurst Street



1.3 Methodology

3D Model

Using the imported surveyed data into our 3D software (3DS Max), we then imported the supplied 3D model of the proposed building envelope and relevant DA approved building massings.

Alignment

The positions of the real world photography were located in the 3D scene. Cameras were then created in the 3D model to match the locations and height of the position from which the photographs were taken from. They were then aligned in rotation so that the points of the 3D model aligned with their corresponding objects that are visible in the photograph.

Renderings of the building massing were then created from the aligned 3D cameras and montaged into the existing photography at the same location. This produces an accurate representation of the scale and position of the new building envelope with respect to the existing surroundings.

In conclusion, it is my opinion as an experienced, professional 3D architectural and landscape renderer that the images provided accurately portray the level of visibility and impact of the built form.

Yours sincerely, Grant Kolln

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1.4 CV of Grant Kolln, Director of Virtual Ideas

Personal Details

Name:	Grant Kolln
DOB:	07/09/1974
Company Address:	Suite 71, 61 Marlborough St, Surry Hills, NSW, 2010
Phone Number:	02 8399 0222

Relevant Experience

2003 - Present
Director of 3D visualisation studio Virtual Ideas. During this time I have worked on many visual impact studies for legal proceedings in various different types of industries including architectural, industrial, mining, landscaping, and several large public works projects. This experience has enables us to create highly accurate methodologies for the creation of our visual impact media and report creation.
1999 - 2001
Project Manager for global SAP infrastructure implementation - Ericsson, Sweden
1999 - 1999
IT Consultant - Sci-Fi Channel, London
1994 - 1999

Relevant Education / Qualifications

1997	Advanced Diploma in Architectural Technology, Southbank TAFE, Brisbane, QLD
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1.5 SEARs Shadow Study













































































































































































































































































































































