
SITE SPECIFIC DESIGN CRITERIA ANALYSIS



Prepared for:

Stuart Smith
5 Minmai Road
Mona Vale NSW 2103

Issued:

19/01/2020

Supplier:

Sheds n Homes Nowra

Building Details:

Span: 4.2
Length: 7
Avg. Height: 2.885

Assessment Ref:

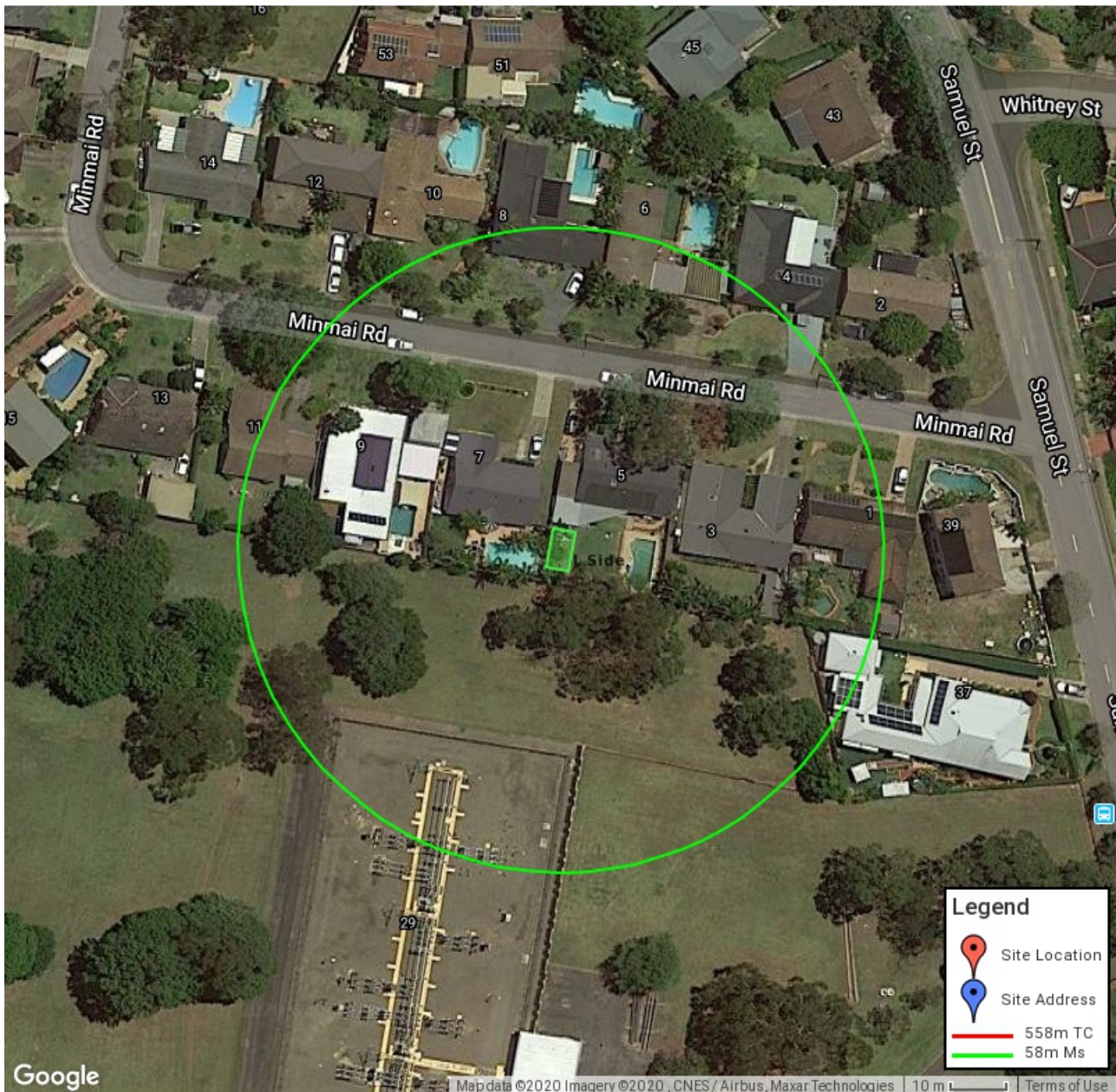
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Certified by:

A handwritten signature in blue ink, appearing to read "Rob Nancarrow".

R. Nancarrow
for and on behalf of
TNC Engineering PTY LTD
(ACN 610 855 260)

Member Institution of Engineers (Aust.), CPEng (NER Structural & Civil) Regn. No. 2741240
Registered Professional Engineer (Structural & Civil) - Queensland: Regn. No. 13750
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Site Location:

Geographic coordinates of

-33.67263,151.28885

Generally described as:

5 Minmai Road Mon Vale NSW 2103

Executive Summary - Site Specific Analysis

The design analysis of the building has not been considered for each of the 4 orthogonal directions. Hence the maximum wind speed in any of the 8 cardinal directions has been used as the design wind speed. This is a conservative approach.

Each cardinal direction has been considered and the results are summarised below

Factor	N	NE	E	SE	S	SW	W	NW
Wind Region	A2							
Importance level (IL)	2							
Regional Wind Speed (Vr)	45							
Terrain Category (TC)	2.96	2.81	2.98	2.97	2.87	2.99	3	3
Terrain Category Multiplier (Mz)	0.83	0.85	0.83	0.83	0.84	0.83	0.83	0.83
Shielding Multiplier (Ms)	0.81	0.82	0.81	0.99	1	1	0.84	0.82
Topographic Multiplier (Mt)	1	1	1	1	1	1	1	1
Wind Direction Multiplier 1 (Md1)	0.8	0.8	0.8	0.95	0.9	0.95	1	0.95
Site specific design wind speed (Vsite1)	30	30	30	35.3	34.1	35.6	31.4	30

Wind Direction Multiplier 2 (Md2)	0.8	0.8	0.8	0.95	0.9	0.95	1	0.95
Site specific design wind speed (Vsite2)	30	30	30	35.3	34.1	35.6	31.4	30

Design Wind Speed (Vsite1) 35.6 m/s for the resultant forces and overturning moments on the complete building and wind actions on major structural elements.

Design Wind Speed (Vsite2) 35.6 m/s for all other cases, including cladding and immediate supporting members (Purlins and Girts)

Snow Load Nil

Seismic Factor Nil

Durability Alert No