

15 February 2016

Our ref: sd1602-004
Your ref.: DA.250

General Manager
Pittwater Council
PO Box 882
Mona Vale NSW 1660

GEOTECHNICAL ENGINEERING ADDENDUM_3

Re: Alterations & Additions @ “Kumale” 949 Barrenjoey Rd, Palm Beach, NSW 2108

1. Introduction

The purpose of this geotechnical addendum is to:

Support proposed alteration and addition at the above address to comply with Pittwater Council condition/s for DA Application Issue,

- a. New garage as depicted on Figures 1 and 2,

The components shown in drawings as per WM Wood / Marsh Architecture Pty Ltd project #306 at the address as above shown have been checked and analysed by VDM Consulting Engineers Pty Ltd (VDM) in geotechnical terms to ensure that the new changes do not cause lines of failure which in turn would cause a land slip / land slide.

The proposed Garage will partially cover the existing sandstone retaining wall. This wall encompass two components,

- a) Sandstone façade which is a feature only and is not a structural element and
- b) Hidden behind it there is a reinforced concrete block wall which in turn has been anchored to the rock ledge.

Note: VDM has structural engineering details of the design and construction of the wall.

2. Conclusion

The changes to confirm are; that there are no changes or list of changes to the original Geotechnical Report submitted with DA175/12 as described above and will not affect the geology of the site. Nor there is a need to alter previous geotechnical assessments and reports. The site has been progressively geotechnical assessed during the construction process up-to-date.

However, in the event that retaining wall is considered to be a structural element to support the garage a rigorous structural engineering analysis will need to be perform. The analysis results will also need to be approved by the Geotechnical Engineer

This certificate shall not construe as relieving any other party of their responsibilities, liabilities or contractual obligations.

3. References

- a) Architectural Projects Pty Ltd – September 2013
- b) Assessment of retaining walls @ “Kumale” – 949 Barrenjoey Rd., Palm Beach, VDM, 2008
- c) Assessment of Cliff Faces @ “Kumale” – 949 Barrenjoey Rd., Palm Beach, VDM, 2008,
- d) Geotechnical Assessment – PROPOSED ADDITIONS & ALTERATIONS @ “KUMALE”
949 BARRENJOEY RD, PALM BEACH, NSW 2108 – VDM 2008
- e) Assessment of Retaining Walls @ “Kumale”, a report by VDM, May 2008,
- f) Assessment of Cliff Stability @ “Kumale”, a report by VDM May 2008
- g) Architectural Drawings (including plans and sections), Di Qual Studio, November 2007
- h) Geotechnical Assessment – “Geotechnical Assessment, Proposed Alterations, Kumale”, a report by Douglas Partners, 2004,
- i) Geotechnical Engineering Addendum_2 – report by VDM, October 2013

CERTIFICATION

Responsibility for this report is acknowledged as follows:

Name of person signing – Mario F. Benitez *BE(UTS-Struct)*

CPEng., MIEAust. (418917), MIPENZ (111943)

Position – Senior Structural / Geotechnical Engineer

Name of responsible firm for and on behalf of person
is signing for – VDM Consulting Engineers Pty. Ltd.

Signature

Checked by:

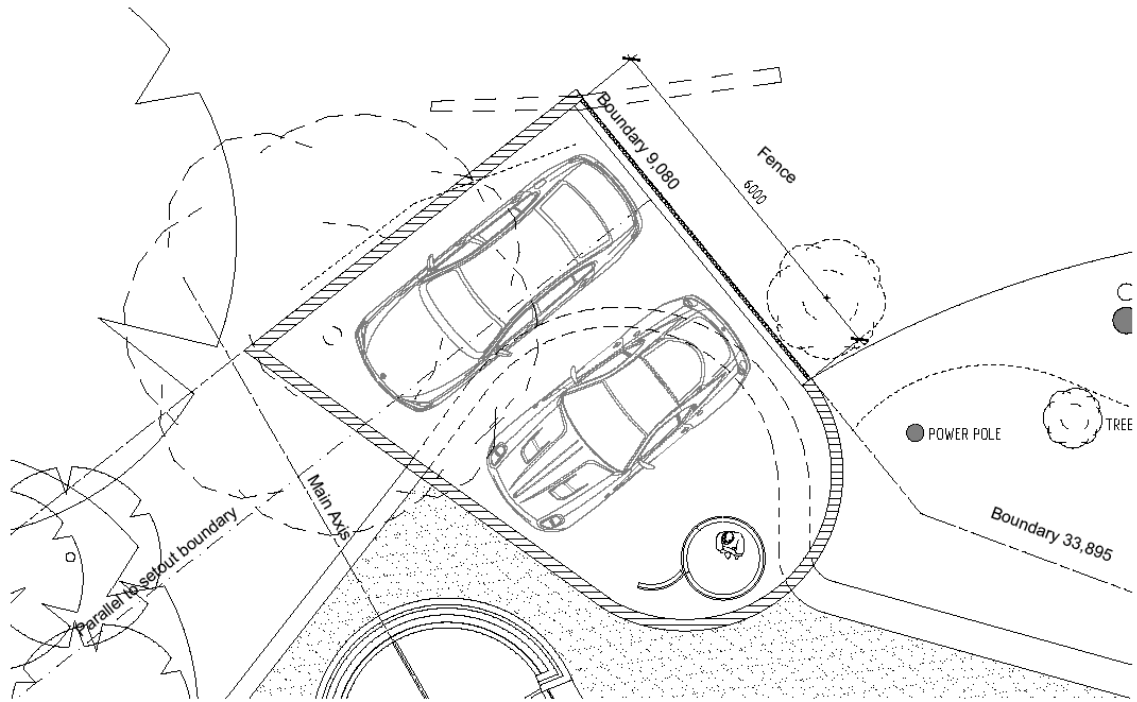
Dr Manfred Hausmann - *CPE MIEAust.* 339258,



Senior Geotechnical Engineer

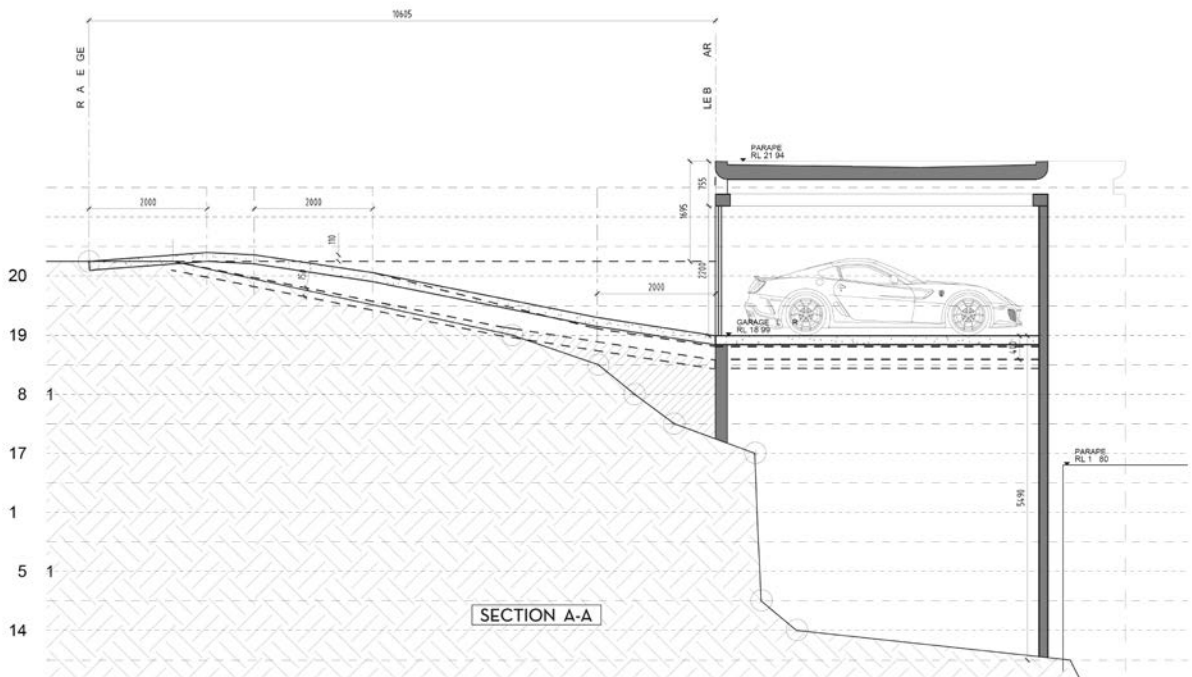
Signature





CLIENT	PAUL HYLAND AND PAMELA MARSHALL	PROJECT NO.	A000	DATE	2015.04.05
PROJECT	KUMALE 949 BARRENJOY RD PALM BEACH	DRAWN BY	306	DESIGNED BY	BW/BN
SCALE	1:50	CHECKED BY		APPROVED BY	WM
TITLE	LVL 7 - REVISED GARAGE	DATE			

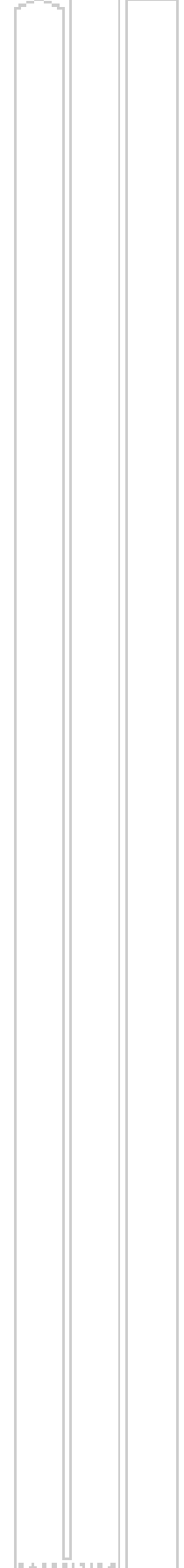
Figure 1 – Plan view - Proposed garage



CLIENT	PAUL HYLAND AND PAMELA MARSHALL	PROJECT NO.	DA 250	DATE	2015.11.08
PROJECT	KUMALE 949 BARRENJOY RD PALM BEACH	DRAWN BY	306	DESIGNED BY	BW/BN
SCALE	1:50	CHECKED BY		APPROVED BY	WM
TITLE	PROPOSED GARAGE / DRIVEWAY PROFILE	DATE			

Figure 2 – Section - Proposed garage

VDM



REGISTERED
ENGINEER