

ADDENDUM TO SEISMIC ASSESSMENT
FOR
BODY CORPORATE 88141
2 OHIRO ROAD, TE ARO



QUALITY STATEMENT AND DOCUMENT CONTROL

CLIENT Body Corporate 88141
PROJECT ADDRESS 2 Ohiro Road, Te Aro
DTCE PROJECT NUMBER 216513
DOCUMENT NAME 216513-RP-001

REVISION HISTORY	REVISION	DATE	REASON
	A	6/9/18	Addendum to June 2013 report

PREPARED BY _____
Adam Webber

REVIEWED BY _____
Lee Huang

APPROVED BY _____
Marlo Bromley

ADDRESS DTCE
81 Harbour View Road, Northland, Wellington
04 475 7933
info@donthomson.co.nz

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1 INTRODUCTION

In June 2013 we, DTCE issued a Seismic Assessment report for 2 Ohiro Road, Te Aro. The conclusions of this report found that the building was rated between 34% and 67% NBS. Due to the lack of information about the lap length/end hooks of the reinforcing bars, we made a conservative assumption about the lap length of the reinforcing bars. Our report recommended that invasive investigations were carried out to obtain the actual lap length of the reinforcing bars to in the hope to increase the %NBS value of the building.

2 INVESTIGATION

On the 5 June 2018, an invasive investigation was carried out at 2 Ohiro Road. The investigation involved the breaking out of a localised section of concrete to determine whether the reinforcing bars were hooked at the ends. A section of concrete was broken out at the beam-column joint above the north-western corner garage. The results of the testing conclusively show that the reinforcing forcing bars have been hooked as per the original drawings.



Figure 1: Area of investigation



Figure 2: Hook in reinforcing bar found

3 RESULTS

As a result of the invasive investigation, we presume the building was built as per the original drawing. Once establishing that the reinforcing bars have been hooked at the ends, we were able to improve our assumption about the lap length of the reinforcing bars from our original calculations. We have updated our calculations and the results are as follows

3.1.1 Updated values

	GARAGE LEVEL	GROUND FLOOR	1 ST FLOOR	2 ND FLOOR	3 RD FLOOR
North-South (Parallel to Ohiro Road)	>100%	>67%	>67%	>100%	>100%
East-West (Parallel to Aro Street)	>67%	>67%	>100%	>100%	>100%

4 CONCLUSION

We have concluded that the building at 2 Ohiro Rod, Te Aro has a %NBS value of greater than 67% (IL2). In accordance with the New Zealand Society for Earthquake Engineering (NZSEE) guidelines this gives the building a grade B which is defined as 'good'.

Our previous Detailed Seismic Assessment (DSA) which was based off the assumption that the reinforcing had an inadequate lap length/no hook at the ends lead to the conclusion of the critical structural weakness (CSW) being the concrete walls. If an exact %NBS is desired, we can complete a new DSA subject to a new fees agreement.