

Project 71342.02  
17 May 2012  
MJT:jlb

VDM Consulting  
Level 5, 35 – 37 Chandos Street  
St Leonards NSW 2065

Attention: Mr Richard Matheson

Dear Sirs

**Dilapidation Zone Pile Wall Construction  
Marsden and Macquarie Streets, Parramatta**

Following our recent discussions we are pleased to confirm that we believe the dilapidation zone around the proposed excavation should not exceed about 10 m. The excavation will be supported by an anchored pile wall which will undergo some minor horizontal and vertical displacements as a result of excavation and movement of the ground anchors as they take up the soil load. Previous modelling of stresses and deformations in anchored pile walls indicates that movement is generally restricted to a zone of within 5 – 10 m of the top of the wall. This modelling has been confirmed by monitoring of movements next to deep excavations. Consequently, we believe that the dilapidation survey need not extend beyond about 10 m from the property boundary.

We trust that the above is of assistance but if you have any further questions please do not hesitate to contact the writer.

Yours faithfully  
**Douglas Partners Pty Ltd**



**Michael J Thom**  
Principal