

5. SITE CLASSIFICATION AND TARGET STRATA

Based on the findings of the site investigation and the footing system design proposed on the client supplied information, the classification of the site is considered to conform to: -

CLASS " P "

This classification is due to the proposed demolition of the existing house and pool and the poor bearing capacity of the existing soil.

However, if this was not the case the soil type and reactivity would be comparable to that of a CLASS " M ".

in accordance with Australian Standard 2870-2011, 'Residential Slabs and Footings, Construction'.

The target stratum where 100kpa of allowable bearing capacity is attained by a suitable founding material is the stiff SANDY CLAY which occurs at a depth of 800mm from the existing ground level at location BH1 and at a depth of 1100mm from the existing ground level at location BH2. Any fill placed over the existing ground shall be pierced through the fill into the existing material. Further note that the placement of reactive material as fill may change the site's classification.

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6. FOOTING SYSTEM DESIGN

The footing system shall be designed to conform to the performance limits stated in AS 2870 - 2011 and reprinted in the C.S.I.R.O.'s Publication 10/91, 'Guide to Home Owners on Foundation Maintenance and Footing Performance', a copy of which attached to this report. It should be noted that footings designed in accordance with AS2870-2011 does not guarantee no movement of footings, shrinkage cracking or other damage to the building.

Foundation preparation and footing construction shall be in accordance AS 2870 -2011 and AS 3798-1990 'Guidelines on Earthworks for Commercial and Residential Developments'.

Where necessary, subsoil drainage shall be incorporated in the construction of the building to ensure that subsurface water is properly drained away from the footings.

Potential seepage or subsoil drainage problems cannot always be recognised from the results of a site investigation. Problems with respect to subsurface water flow or seepage may not be evident until after the site has been subject to the first significant wet period.

After construction of the footing system the ground surface around the residence shall be sloped away from the footings at a fall of 1 in 20 minimum for a distance of 2000 mm.

7. ARTICULATION

It is recommended that masonry walls on Class M, H, E and P sites be articulated at all or some openings. Articulation joints shall be constructed in accordance with the Cement and Concrete Association's Publication 'TN61 - Articulated Walling'.