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Strata Plan 81259

Geotechnical Addendum Letter for the Remediation of a Retaining Wall  
at 60 Alexander Street, Collaroy, NSW.

We understand that an addendum letter is required to supplement the original Geotechnical Report undertaken by Crozier Geotechnical Consultants (CGC). Following the original Geotechnical Report (referenced below) the retaining wall within the rear of the site subsequently failed completely and a subsequent geotechnical inspection was undertaken (also referenced below).

As part of this assessment we have reviewed the following documents:

1. Our Report titled '*Geotechnical Investigation for Remediation Design at 60 Alexander Street, Collaroy*', Project No. 2020-097, Dated: 30 June 2020.
2. Geotechnical Inspection Report, Project No: 2020-097, Dated 14 April 2022.
3. Structural Investigation by Woolacotts Consulting Engineers, Reference 23-14, Dated 23 February 2023
4. Structural Drawings by Woolacotts Consulting Engineers, Project No.: 23-14, Dated November 2023, Reference: S1 (amendment A)), and Project No.: 23-14, Dated: 13 June 2025, Reference: S2 (amendment D).

The conclusions of the Structural Investigation broadly correspond with the findings of the Geotechnical Report and provides additional information regarding the mechanism of failure relating to the structural design of the now failed wall and on which the structural design for new works has been based upon.

It is understood that it is proposed to construct a deck supported on piers and screw piles within the rear garden to allow access to the rear of the property.

The review of the structural drawings indicated that a permanent batter slope of 1 (V) : 2 (H) is proposed to be formed underlying the new deck which corresponds to the recommendations of the Geotechnical Report. It is envisaged the slope will be protected by the new deck from surface erosion therefore a batter angle of 1:2 is considered adequate though it does not rule out potential for minor long term creep or erosion from concentrated surface flow, therefore recommend covering the excavated slope in a geofabric, or similar.

It is noted that screw piers are proposed to be utilised to support the new deck. Limited geotechnical input can be provided at this stage on the adequacy of the strata to support both the specified compression and tension loads as deep geotechnical investigation has not been undertaken. Therefore this will need to be confirmed by the piling contractor based on torque at installation as per the Structural Drawings referenced above.

It should be noted that the strength of the bedrock has not been confirmed and if the bedrock is greater than low strength, screw pier penetration into this strata may be limited which may impact the load capacity of the anchors.

This should be raised with the piling contractor who is ultimately responsible for the performance of the screw piers.

Based on the original investigation and subsequent inspection it appears the ground conditions upon which the design is based are as anticipated and the original report findings are still valid, and the structural design appears suitable subject to the requirements noted above.

Hope the above comments meet Council's requirements, if we can be of further assistance in regard to this matter, please don't hesitate to contact the undersigned.

Yours faithfully,



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