18 July 2025

Client and site contact details redacted for public sample.

SITE INSPECTION OF WORK PROGRESS — SAMPLE REPORT (EXCAVATION OF FOUNDATION FOR CONCRETE BLOCK RETAINING WALL).

SITE VISIT – 18 JULY 2025

Inspection Report:

The engineering team has conducted a visual inspection and reviewed the design documentation for the foundation of the proposed and installed Concrete Block Retaining Wall system at the subject property. The inspection scope includes verifying compliance with the approved engineering drawings (Ref: the approved engineering documentation), applicable Australian Standards, and the Building Code of Australia.

A visual inspection was conducted on the excavated area designated for the proposed concrete block retaining wall. As shown in Figures 1 and 2, the excavation exhibits adequate width and appears to be properly prepared for construction. Reference to the geotechnical report indicates the presence of floaters or weathered rock at approximately 1 metre depth. Upon direct visual assessment, the exposed subgrade material is generally suitable for foundation support, displaying no signs of instability or excessive moisture.

However, due to significant elevation differences between the subject site and adjacent properties—measured at approximately 0.80 m and 3.00 m lower, respectively—the client expressed concerns regarding long-term stability. To provide additional reassurance and structural redundancy, it is proposed to install two bored concrete piers, each 450 mm in diameter and extending to a depth of 3.0 metres or a minimum 300 mm embedment into extremely weathered rock, whichever is deeper. This supplementary pier system will enhance the overturning and sliding resistance of the retaining wall, particularly at critical locations such as corners where lateral pressures are concentrated. The proposed solution is consistent with the principles of structural safety and complies with relevant provisions under AS 4678:2002 – Earth-retaining structures and AS 2159 – Piling – Design and installation.



Figure 1. Excavated (1)



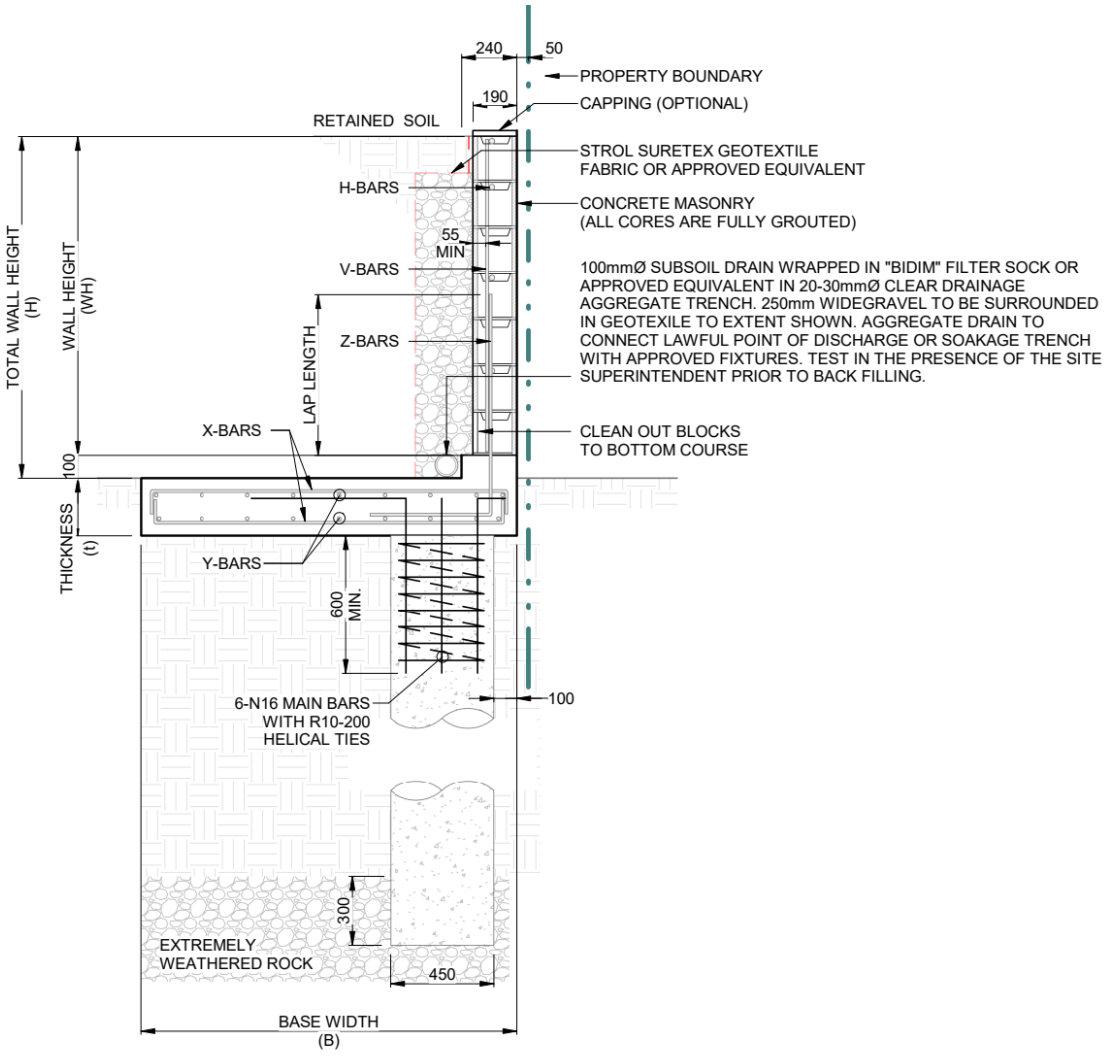
Figure 2. Excavated (2)

SITE LOCATION IMAGE REDACTED
FOR PUBLIC SAMPLE

Recommendations

It is recommended that two concrete piers be installed near the corner of the property to provide additional structural support to the retaining wall and enhance overall structural redundancy and stability.

Refer to the structural detail below for the proper placement and installation of reinforcement bars, including main bars and ligatures. All reinforcement shall be installed in accordance with AS 3600 – Concrete Structures Standard and relevant project specifications.



SECTION B1

1 : 20



Conclusion

The inspection is deemed conditionally successful. A certification of Inspection will be issued upon completion of the subsequent work.

We want to thank you for your business, and please do not hesitate to contact us to discuss if required.

Kind regards,