

[REDACTED]

Date. 06 September 2024

5 The Dene
Hurst Green
Clitheroe
BB7 9QF

For the attention of [REDACTED]

Dear Sirs

STRUCTURAL ENGINEERING & INSPECTION – 5 THE DENE, HURST GREEN

You requested that we carry out a design for the gabion retaining wall built along the boundary of the above property adjacent to The Dene and also carry out a site visit to inspect the quality of the build.

Lancashire County Council have raised concerns regarding the height of the wall and its design as it is within 2m of the highway.

We visited the property on Wednesday 21st August 2024.

Description

The gabion wall runs along the property front boundary from the garage wall to the left-hand boundary. The wall is built of 1m x 1m x 1m gabion baskets stacked two high at the garage and then reduces in height after 3.5m to 1.5m tall overall. The higher basket is also reduced to a 0.5m x 0.5m x 1m long with the front face being set back 250mm from the lower basket.

The baskets are filled with rock and have been faced in a random stone pattern, providing a finished look. The soil behind the wall has been re-profiled and planted with a wild-flower mix with the slope angle being 26 degrees. At a distance of 4m behind the wall and approximately 2m higher a second row of gabion baskets have been built to provide a flat area of garden above. This second wall does not load the lower wall, the 45 degrees line falling within the distance between the walls.

Findings

Calculations have been carried out on the design of the wall. The calculations demonstrate the wall to be adequate in terms of overturning, sliding, and bearing pressure at the base and for overturning and sliding at the junction of the two rows of baskets.

A copy of the calculation is attached for reference.

We trust the above is clear, however please do not hesitate to call should you require any further information.

Yours faithfully
For and on behalf of

[REDACTED]

Enc.

Reid Jones Partnership Ltd 9 Orrell Road, Orrell, Wigan Lancs WN5 8EY
Tel: 01942 216006 Fax: 01942 216007 Email: enq@reidjonespartnership.co.uk Web: www.reidjonespartnership.co.uk

Directors: S John Reid, BSc(Hons) CEng MICE MStructE. Edwin Jones, BEng (Hons) CEng MStructE MICE
Registered in England No. 4022288 Registered Office – 105 Garstang Road, Preston PR1 1LD

