

PHIL HEATON ASSOCIATES LIMITED

Consulting Civil and Structural Engineers

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STRUCTURAL REPORT – 01 November 2021

Client: Cassidy + Ashton

Address: 7 East Cliff, Preston PR1 3JE

Ref. St James CE Primary School, Greenacre Street, Clitheroe BB7 1ED

Dear Alistair

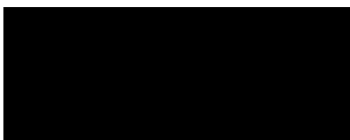
Further to our recent discussions and pursuant to my call last week with Carole Woosey at the Environment Agency (EA), the proposals at present with a raft foundation and ground bearing slab means we cannot satisfy the requirements to replace the loss in flood water storage within the site boundary. A simple calculation has proved this.

What can be achieved, however, is to utilise a full sub floor void to the building whereby the flood water capture presently available on the site is retained by raising the floor level either on exposed steel encased piles or blockwork piers and constructing a beam and block floor over the void. This will cause a consequential rise of the overall height of the building and the void will need to be guarded with a suitable means of preventing children from entering this confined space.

Either solution should also consider a minimum 30cm air gap above the highest flood water level to the underside of the floor structure to future-proof the structure and also prevent buoyancy issues arising.

Please call to discuss these possible solutions and notify the EA of the principles now under consideration for their feedback.

Yours sincerely



Phillip Heaton
MBA MSc (Eng) BEng (Hons) C Eng MICE

