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## STRUCTURAL TECHNICAL NOTE

FOR

**MR KASHIF RAHEEL  
RESIDENTIAL NEW BUILD**

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**46 STILE COMMON RD, PRIMROSE HILL,  
HUDDERSFIELD, HD4 6DE**



ISSUED AS ADDITIONAL INFORMATION:  
**HUDDS DESIGN**

31<sup>st</sup> January 2019  
Ref: HD-A-246

**STRUCTURE, OBSERVATION AND COMMENTS**

This technical note is to support the disposal of the planning condition with regards to the foundation design and ground conditions, to clarify the design, and additional support to the structural package issued HD-A-246 dated 25<sup>th</sup> Oct 2018 which provides a comprehensive design package for building control purposes for the key structural elements for the new build at 46 stile common road.

The survey and initial coal mining assessment work undertaken to date demonstrates possibilities of pockets of coal mining seams with the greatest being 1.0m deep at depths of approximately 3m below ground, with additional seams 0.5m deep at depths of approximately 8m. It was noted the layer 1m above the shallow seam was of solid ground.

As the depths varied of random seams, and a piling solution had to be very accurate to ensure sufficient design and soft spot was not reached, given the general ground conditions are such that of clay and good ground, and in light of the above coal mining seams, and the general three storey residential structure, a raft foundation design was proposed with limiting bearing pressure of 25 KN/m<sup>2</sup> and a very low actual ground bearing pressure of less than 15 KN/m<sup>2</sup> was achieved within the design.

Hence, it can be said the above residential new build, is suitable to be built on a raft foundation as per structural design HD-A-246 dated 25<sup>th</sup> Oct 18, and as agreeable when visiting site with a building control officer for the above ground conditions the raft will lay on, can be dug and agreed upon.

We can further provide any detailed explanation with respect to the information provided to date, given any concerns expressed by the Council, but reiterate and confirm that the new residential building design on a raft foundation is structurally sound and that the designed limiting ground bearing pressure of 15 KN/m<sup>2</sup> to be exerted from the proposed structure are a further emphasises of this fact.