



# H T PARTNERSHIP

APPENDIX A.

CONSULTING CIVIL AND STRUCTURAL ENGINEERS

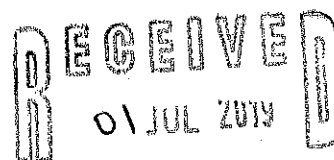
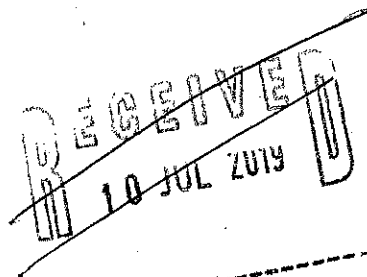
The Barn, Keens Lodge, Worth Lane, Little Horsted, East Sussex, TN22 5TT  
Tel: 01825 750440



Our Ref: SKH/SJR/18339

28<sup>th</sup> June 2019

Mr T Jackson  
Seaford Town Council  
37 Church Street  
Seaford  
East Sussex  
BN25 1HG



☐ Dear Tony,

**Ref: 18339 – Bonningstedt Wall, Seaford Promenade.**

Further to our meeting, site visit and discussions we herewith enclose a set of calculations and details concerning our suggested method of forming the sea defence wall.

**N.B. Paragraph no longer relevant, so removed to prevent confusion.**

☐ With respect to the wall, we have indicated this as being a 260mm overall thickness and ~~700~~mm in height. There will be steel posts located at 2.46m centres, these posts being 203 x 102 x 23UBs bolted down onto the concrete promenade paving. Running along and bolted to the top of these posts will then be a 260 x 75mm PFC channel beam which will create a safe, firm level surface for seating purposes or leaning against.

On each side of the steel columns we have indicated steel mesh having 4mm diameter bars at 50 x 50mm centres. This will be secured onto the outside face of the steel posts with steel cover strips and bolts. In between these two sheets of welded mesh the 200mm gap can be filled with pebbles or stone having a minimum size of 63mm which will then be contained by the grid.

At the openings, the end columns will be located at 1m centres thereby creating a 900mm clear gap. Timber sleepers can be slid down into the web of the posts as required during storms.

[www.htpartnership.co.uk](http://www.htpartnership.co.uk)

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D M Harkness BA(Hons), PGCE, QTS.

Associate: R G King BEng, CEng, MICE.

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All steelwork including the mesh, bolts and fixing plates etc. will need to be hot dipped galvanised to a minimum dry film thickness of 85 microns. This will give the steelwork a protection against the weather of around 20 years. The steelwork and mesh sheets could be powder coated if you would prefer a different colour to the dull silver galvanised finish. However the risk is that the powder coat finish could get damaged during the stone filling process or when pebbles from the beach are being blown about during storm conditions.

The wall structure has been designed to withstand loads associated with people sitting or walking along the top of the wall, as well as people leaning against it. The loading figures have been adopted from the relevant British Standard. Specifically the vertical load allowance is 60kg per metre run plus 150kg per metre run acting horizontally on the capping beam.

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☐ Please let us know if you have any questions regarding the wall as designed. Otherwise we trust our proposals along with the Architect's drawings are sufficient to enable you to obtain estimates.

Assuring you of our best attention.

Yours sincerely,



**Stephen K Harkness, C.Eng.**  
**H.T.Partnership**

Encl

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