

From: Wallis, Carol <carol.wallis@braintree.gov.uk>

Sent: 01 Feb 2024 08:10:13

To: my.idox.emails@braintree.gov.uk

Cc:

Subject: FW: 23/01994/FUL The Woodlands Hotel, Coupals Road, Sturmer, CB9 7UW - Updated Flood Risk and Drainage Strategy [FREETHS-ACTIVE.FID4632592]

Attachments: 240130_Surface_Water_Calculations_P02.pdf, WHCH-BSP-ZZ-XX-D-C-SK240-P06_Drainage_Strategy.pdf, WHCH-BSP-ZZ-XX-D-C-SK210-P04_Levels.pdf

From: Beth Evans <>

Sent: Thursday, February 1, 2024 1:36 PM

To: Wallis, Carol <>

Cc: Mark Bassett <>

Subject: RE: 23/01994/FUL The Woodlands Hotel, Coupals Road, Sturmer, CB9 7UW - Updated Flood Risk and Drainage Strategy [FREETHS-ACTIVE.FID4632592]

Carol,

Following on from the submission of the below, we attach a further updated Drainage Strategy in order to respond to the LLFA's latest comments (dated 17 January 2024). Please can you upload to the Council's website and re-consult accordingly.

For clarity, the strategy has been updated as follows:

- **Please clarify the surcharging that occurs in the 1 in 1 year even.**

We have reviewed the drainage model and relocated the Flow Control Chamber to remove the surcharging that was occurring in the 1 in 1 year event. We still have a minimal surcharging in the 1 in 1 year event for the outcoming pipe from the Flow Control Chamber due to the turbulence created by the vortex. The flow in the pipe is 2.1 l/s and it is 6% of the pipe flow capacity.

- **Please provide a more detailed drainage plan. Please show the permeable paving on the drainage plan.**

We have reviewed the Drainage Plan and identified 2 locations for permeable paving as additional SuDS treatment features.

We prepared the Drainage Strategy in line with the Essex Green Infrastructure Standards Technical Guidance and whilst would be desirable to include more SuDS features as the permeable paving, due to the natural topography of the site and its steep gradients, several SuDS features, as the permeable paving, swales, etc are not feasible, as such, we proposed filter trench as an alternative for those areas. The filter trench provides similar water filtration and treatment as the permeable paving before discharging into the network.

Please note, a response to Anglian Water's most recent comments (dated 16 January 2024) will follow in due course – our drainage consultant is liaising directly with them to discuss the comments.

Kind regards

Beth

Beth Evans
Senior Associate

FREETHS



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