



ENGINEERING

Mr Jamie Crawley
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Lead Local Flood Authority
Post Point CHN 215
Hertfordshire County Council County Hall
Pegs Lane
HERTFORD SG13 8DN

RE: 6/2023/1354/COND – 71 Station Road, Cuffley, EN6 4HG.

I am writing in response to the letter dated July 14, 2023, from the Lead Local Flood Authority (LLFA) regarding Condition 4. I would like to address the points raised as follows:

1. Infiltration testing has been carried out by Dearman Developments and we have attached a copy of the percolation testing results. The testing carried out on the 19th April 2022 confirms that the ground is Clay (as per the soil report) and following two hours the water level had remained the same and therefore, testing was abandoned.
2. A comprehensive drainage strategy was submitted as part of our planning application in 2021. This strategy outlined the drainage arrangements, taking into account the underlying clay strata, which rendered infiltration unfeasible. As you are aware, Herts & Essex Site Investigations conducted on-site testing, the results of which further validated our approach. Once planning was granted further testing was carried out (point1 above). Micro-drainage Calculations 2592-SWS REV-A attached confirm the 2.0 l/sec. which has also been approved by Thames Water.
3. All required information regarding drainage calculations and specifications has been meticulously documented in our drawings and accompanying calculations. We would appreciate it if the LLFA could review these documents thoroughly, paying special attention to the keys and detailed notes for a comprehensive understanding of our approach.
 - a. Our approval and design were initially based on the FSR rainfall methodology, which was the prevailing standard at the time of our application and approval. It would not be reasonable to request recalculations using the FEH rainfall methodology based on current standards.

- b. The LLFA's request for changes in micro drainage settings is not applicable to our project, as there is no backdrop involved in our design.
- c. The MADD Factor has been revised to 0.
- d. We have added climate change to the 3.33% AEP calculations as requested.
- e. We have revised the design to remove the Flood Risk for a 1 in 100 year + 40% climate change.
- f. While there may not be specific guidance in SuDS Guidance for Hertfordshire (March 2015) regarding systems not achieving a 24-hour half-drain time, Cambridgeshire County Council Surface Water Planning Guidance (June 2021) provides a suitable assessment criterion. We have undertaken additional Micro Drainage calculations, which demonstrate that our proposed soakaways have sufficient capacity to accommodate a 10% AEP rainfall event immediately following a 1% AEP event, despite a slightly higher half-drain time.
- g. The SuDS treatment statement has been previously submitted and approved during the planning stage. We kindly request clarification on why this information is still being requested at this stage.
- h. Silt traps have been clearly indicated on our drawings. We encourage the LLFA to review these drawings carefully to locate the relevant information.

We trust that this response adequately addresses the points raised in the LLFA's letter dated July 14, 2023. We remain committed to working collaboratively with the LLFA to ensure the successful and compliant completion of our development.

Please feel free to contact us should you require any further clarification or information.

Yours Sincerely

Jamie T Crawley
For and on behalf of
MTC Engineering (Cambridge) Ltd

