

From: [Adam Hunt \(Place\)](#)
To: [Eloun Smith](#)
Cc: [Planning \(HPBC\)](#)
Subject: DOC/2025/0025 - Glossop Fire Station
Date: 06 June 2025 09:17:24
Attachments: [Drainage Calculations Guide v1.2.pdf](#)

Good morning Eloun,

The Lead Local Flood Authority (LLFA) have reviewed the latest information in Technical Note 1 submitted by the applicant on 02/06/2025. It has been stated on behalf of the applicant that the information requested by the LLFA on 24/04/2025 in relation to condition 5 will be provided later and therefore I will refer only to condition 4 at this time.

The LLFA will require the following information before we are able to recommend the discharge of condition 4:

1. Amendments to the surface water drainage modelling calculations as per DCC guidance (attached):
 - Design criteria parameters: Return period to be set to 1 year; maximum rainfall to be set to the maximum of what the software offers; maximum time of concentration to be set to 5 minutes; volumetric runoff coefficient to be set to 1.
 - Simulation criteria parameters: volumetric runoff coefficient to be set to 1; return period to be set to 1; CV (summer & winter) to be set to 1; MADD Factor to be set to 0.
2. Amendments to the Below Ground Drainage Layout (BGDL), Impermeable Area Plan (IAP), and modelling calculations:
 - Inconsistencies of pipe numbers between BGDL and modelling calcs, also between BGDL & IAP.
 - Inconsistencies of pipe length values between BGDL and modelling calcs.
 - Inconsistencies of slope values between IAP and modelling calcs.
 - Inconsistencies of pipe diameter figures between BGDL and modelling calcs.
 - Inconsistencies of Node (MH) names, CLs, ILs between the pipeline schedule of the modelling calcs and BGDL/IAP.
(please could all of the above details be added into the BGDL as a minimum so there is a clear consistency between the proposed drainage layout and associated modelling calculations).
3. Inconsistencies of Impermeable areas between the Network Design Table in the modelling calcs and IAP.
4. Pipe 1.001 (US/MH-SW03) shows 18.269m³ of flood water volume during the 100 year (+40 climate change allowance). The LLFA would want to see this volume reduced if practicably possible and commentary of how this water will be managed.
5. A plan of overland flow routes in the event of exceedance of the drainage system.
6. Is 0.8m enough cover for the geocellular attenuation tank be enough to cope with the dynamic loading regarding the Fire Service's emergency vehicles?
7. Could a technical drawing be provided for the bypass separator.
8. The LLFA would want to see additional mitigative actions taken regarding inspections for the applicable activities listed in tables 4.1 & 4.2 of the SuDS maintenance and management plan. Particularly, before and after a storm event.

If you have any questions regarding the above, please feel free to get in touch.

Kind regards,

Adam

Adam Hunt | Technician

Flood Risk Management

Place | Derbyshire County Council

County Hall, Matlock, Derbyshire DE4 3AG

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