

Clare Holden

From: SDDC Planning Applications
Subject: FW: DMOT/2024/1215 Boulton Moor - Surface Water Planning Conditions- 1st Email
Attachments: 24101 - 217 - Flood Exceedance Routing Plan.pdf; L-24155-02 JPP (JPP GEO ADDITIONAL GROUNDWATER MONITORING).pdf; 24101 - 221 (3)(C) - Flow Control Chamber Details - Sheet 3 of 3.pdf; L-24155-02 JPP (JPP GEO ADDITIONAL GROUNDWATER MONITORING).pdf; Network 1 SW (15-30mins FSR) 08.10.2024.pdf; Network 4 SW (60mins+ FEH) 12.07.02024.pdf; 24101 - 224 - Outfall Headwall Details.pdf; 24101 - 221 (1)(C) - Flow Control Chamber Details - Sheet 1 of 3.pdf

From: Maisie Marsh <Maisie.Marsh@miller.co.uk>
Sent: 08 January 2025 09:54
To: Caroline Burn <Caroline.Burn@southderbyshire.gov.uk>
Cc: Alex Matthews <Alex.Matthews@southderbyshire.gov.uk>; Helen Dawkins <Helen.Dawkins@miller.co.uk>; Mark Potter <Mark.Potter@miller.co.uk>; Antony Riozzi <Antony.Riozzi@miller.co.uk>
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Hi Caroline,

Thank you for your email. I will send the documents over in the next couple of emails.

For ease, please see our response to the LLFA comments below:

Condition No 31 (foul and surface water drainage) and No 32 (surface water drainage)

- The applicant will need to provide details and calculations including any below ground storage, overflow paths (flood routes), surface detention and infiltration areas, etc, to demonstrate how the 30 year and 100 year + 40% Climate Change rainfall volumes will be controlled and accommodated. Full design details and calculations for the drainage of the site should be submitted. The site surface water drainage shall be designed to ensure there is no surface flooding during a 30 year event and all surface water must be contained on the site during a 100 year + 40% climate change event. **Hydraulic Calculations attached.**
- Production of a plan showing above ground flood pathways (where relevant) for events in excess of the 1% probability annual rainfall event, to ensure exceedance routes can be safely managed. **See attached '24101 - 217 - Flood Exceedance Routing Plan'.**
- A plan detailing the impermeable area attributed to each drainage asset (pipes, swales, etc), attenuation basins/balancing ponds are to be treated as an impermeable area. **See attached '24101 - 208(C) - Drained Area Plan'.**
- Detailed design of the proposed ponds in accordance with CIRIA SuDS manual C753 , for the proposed pond, a plan and cross sections are required showing gradients of slopes, permanent water level, maximum water level for storms up to 100 year plus 40% climate change, other details such as freeboard and outlet details (CIRIA SuDS Manual C753). **See attached '24101 - 214(C) - SuDS Specification Layout'.**
- Details of outfall and all proposed headwalls to be provided. **See attached '24101 - 224 - Outfall Headwall Details'.**
- Exceedance flow route for the pond will be required for rainfall events that exceed the design capacity of the pond and to convey flows should outlet blockage occur (refer to section 23.4.5 of CIRIA SUDS Manual) . **400mm of freeboard has been allowed for within all detention basins, greater than the 300mm**

specified within section 23.4.5 of CIRIA SUDS Manual. All flow control chambers have an emergency wier wall which allows an overflow at the maximum designed water level for the pond. 24101 - 221 (1)(C) - Flow Control Chamber Details - Sheet 1 of 3, 24101 - 221 (2)(C) - Flow Control Chamber Details - Sheet 2 of 3, 24101 - 221 (3)(C) - Flow Control Chamber Details - Sheet 3 of 3.

Condition No 33 (surface water drainage)

Detailed assessment to demonstrate proposed destination for surface water, with reference to section 3 of Flood Risk Assessment (Doc Ref: CCE/E702/BM1-FRA-03, dated October 2021), applicant to confirm if groundwater monitoring results have been obtained and if groundwater levels are low enough to support the use of infiltration scheme? See attached 'L-24155-02 JPP (JPP GEO ADDITIONAL GROUNDWATER MONITORING)' ground water encountered throughout site making infiltration an unsuitable destination for the surface water.

Many thanks,

Maisie

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