

PROJECT	DATE	BY	REFERENCE
Lower Acre, One Horton Heath	09/02/2023	TC	5015560-TN-0010
TITLE	REV		
Condition 16 covering note	P01		

CONDITION 16 – TECHNICAL RESPONSE

Condition 16 states:

No development shall begin until a detailed final surface water drainage scheme, based on the submitted FRA and DS and its Addendums 1` & 2 has been submitted and approved by the Local Planning Authority. Submitted details shall include:

- At least three forms of naturalised filtration (As proposed) and supported by hydrological studies to demonstrate that the drainage system will not adversely affect the integrity of the River Itched SAC and will contribute towards achieving the conservation objective of the SAC by improving water quality and reducing fine particle sediment inputs.
- Details of how the scheme will contribute to reductions in nitrogen and phosphorous in receiving water including the River Itchen SAC.
- A technical summary highlighting any changes to the design from that within the approved FRA and Addendums.
- Updated drainage plans and calculations as appropriate to include type, layout and dimensions of drainage features including links to the drainage calculations.
- Cross and long section of proposed basins to include exceedance flow paths in the event of flow control blockage between basis I & J.
- Details of protection measure to minimise blockage risk to flow control devices.
- Evidence that urban creep has been included within the calculations.
- Updated exceedance plans demonstrating the extent of flooding expected at the 1 in 100 + CC event. These must also detail how flows are likely to behave at the apparent low spots where no onward flow path is identified.
- Details of land drainage provision to allow suitable drainage of green areas where overland flow routes are disrupted as a result of the development.

In response the following is provided:

- Report 300927_25709_SU-RP-02 and 5015560-RDG-XX-XX-DOC-9950 DS .
- Report 300927_25709_SU-RP-02 and 5015560-RDG-XX-XX-DOC-9950 DS .
- Report 5015560-RDG-XX-XX-DOC-9960 FRA
- Drawing 5015560-RDG-XX-ST-DR-C-0500 & 5015560 Infodrainage Calcs (Surface)
- Drawing 5015560-RDG-XX-ST-DR-C-0525 to 34
- The main site Flow controls are located downstream of the ponds which are designed with sediment forebays, and catchpits in the flow train which will prevent blockage. Flow controls in the main site network are generally connected with a catchpit immediately before it or only serving permeable paving which is only connected below ground which prevents debris from being able to enter the network and cause blockages.
- This is included in the calculations detailed in 5015560 Infodrainage Calcs (Surface)
- As per the calculations (5015560 Infodrainage Calcs (Surface)) the 1:100 yr event + CC is to be contained within pipework & storage features.

- i) Land drains included on plan (50155560-RDG-XX-ST-DR-C-0500) with construction details shown on 50155560-RDG-XX-ST-DR-C-0551.