
Comments on surface water drainage;

1. I understand that the DOC application is for phase 1 only. A degree of consideration needs to be given to the future phases at this stage, since some flows discharge into phase 1. Please also note that plot's 121 to 126 drain through the future phase, so we will need that part of the system fully detailed too.
2. At present, there is an insufficient level of detail provided for the proposed scheme, to enable a full response, however, I have made some initial comments below.
3. All text associated with the drainage layout ie. levels, gradients, diameter, etc need to be easily readable on an A1 plot. Currently this is not the case.
4. Are the roads to be adopted by WSCC? Is any part of the surface water drainage to be adopted by a water company?
5. Provide supporting infiltration testing and groundwater monitoring data.
6. Fully detailed construction drawings are required. These are to include all drainage elements ie. permeable paving, manholes including catchpits, headwalls, pipe bedding, backdrops, gullies, rodding eyes, etc. Specify all pipe materials.
7. Although attributed to future phases, are the geocellular crates to receive an impermeable liner wrapping since they will be less than 10m from properties? Make this clear on construction detail which has been provided at this time. It should also detail how the crated section connects to the granular soakaway.
8. Specify permeable paving finished surface levels and base levels and how/if these connect into the infiltration basin system or whether they are standalone structures.
9. Indicate all pipe invert levels, diameters, gradients, soakaway base and inlet levels.
10. Provide full catchment plan for the area draining to the infiltration basin. Only part of the catchment is shown on the 'area take off ' plans.
11. Infiltration construction detail – more detailing required. Specify gabion fill, wire details, dimensions, base level of gabions, bank levels, etc. Architects planting note - No planting to take place around the basin that will prevent future maintenance access – this needs to be made clear.
12. Confirm whether the employment area will be discharging into the system serving your development or not.
13. Spurs should be detailed where connections are expected from future phases.
14. Granular soakaway detail – the vertical inspection arrangement will be required on all connections, not just those serving more than one property. Vertical pipe to be min. 150mm diameter, 'fully' perforated and fitted with end cap. Cover and frame to be ductile iron of suitable grading. Specify no fines to granular material.
15. The hydraulic calculations will be reviewed once more information is available, however, calculations are required for all elements ie, permeable paving, trench soakaways, too. Please also confirm that the rainfall falling on the infiltration basins plan area is included in the calculations. A surcharged outfall should be simulated if the pond inlet/s are surcharged. Orifice controls are included in the calculations – these need to be clearly marked on the layout drawings and fully detailed construction drawings provided.

Regards

Paul Cann
Principal Engineer (Drainage)



To: Engineers (Drainage)

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

APPLICATION NO: WA/24/20/DOC

Registered: 19-MAR-20

Site Address: Land to East of Fontwell Avenue Fontwell

Description of Works: Approval of details reserved by condition imposed under ref
APP/C3810/V/16/3143095 (WA/22/15/OUT) relating to Condition No
12 - surface water drainage

The Council have received the above application to discharge conditions. I shall be pleased to receive any observations you may wish to make in respect of those conditions relating to your field of expertise.

[Click here to view the Discharge of Condition application](#)

[Click here to view conditions on original application - click on decision tab](#)

Should you have any comments to make, these should be sent [by replying to this email](#) by 22nd April 2020.

www.arun.gov.uk/planning

Please be aware that any comments you may make will be available on our website so please do not insert personal details or signatures on your reply.

In the absence of a reply within the period stated, I shall assume that you have no observations to make.

The officer dealing with this application is Raymond Cole who can be contacted on telephone number 

Thanking you in anticipation

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