

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

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From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 25 August 2021 11:22
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Maria Tomalova <Maria.Tomalova@arun.gov.uk>
Subject: RE: Planning Consultation on: BE/104/21/PL

Engineers Comments Regarding Surface Water Drainage

Preliminary ground investigations were carried out on 11/5/2021 which consisted of three windowless sample boreholes and one hand excavated BRE 365 compliant trial pit. Groundwater was noted in all boreholes at a depth of 2m below ground level (bgl) and infiltration testing evidenced an infiltration rate of 5.37×10^{-5} . However, no extended period of groundwater monitoring has been evidenced and no infiltration testing has been undertaken in the winter period. The drainage design for the proposed development must be based upon winter groundwater monitoring and winter infiltration testing.

It is likely that infiltration will be viable on site in which case the proposed strategy of disposing of surface water to ground via a perforated pipe in the (assumed permeable) paved driveway is appropriate. The applicant engineer is encouraged to contact us in advance to agree the level of groundwater monitoring and infiltration testing required (including depths).

When the final detailed design is approved we would expect to see the detailed drainage layout, construction detail drawings for all components, calculations and evidence of further ground investigations. The full list of requirements are detailed in our Drainage Checklist at: [download.cfm \(arun.gov.uk\)](#). The applicant is encouraged to complete this and upload it with any Discharge of Conditions application.

If you are minded to approve the application do not list the “Drainage General Arrangements EX.01 RevP1” as an approved document and please apply the following conditions to ensure that the development is adequately drained and does not increase flood risk elsewhere.

PCENG D2

“Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any Infiltration drainage. No building / No part of the extended building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.”

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works.

PCENG D4 (NB. Used where a development consists of 5 or more properties)

“Development shall not commence until full details of the maintenance and management of the surface water drainage system is set out in a site-specific maintenance manual and submitted to, and approved in writing, by the Local Planning Authority. The manual is to include details of financial management and arrangements for the replacement of major components at the end of the manufacturer's recommended design life. Upon completed construction of the surface water drainage system, the owner or management company shall strictly adhere to and implement the recommendations contained within the manual.”

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. It is considered necessary for this to be a pre-commencement condition to ensure that the future maintenance and funding arrangements for the surface water disposal scheme are agreed before construction commences.

And the accompanying informative:

INFORM D

“Infiltration rates for soakage structures are to be based on percolation tests undertaken in the winter period and at the location and depth of the proposed structures. The percolation tests must be carried out in accordance with BRE365, CIRIA R156 or a similar approved method and cater for the 1 in 10 year storm event plus 40% on stored volumes (allowance for climate change) between the invert of the entry pipe to the soakaway, and the base of the structure. It must also have provision to ensure that there is capacity in the system to contain below ground level the 1 in 100 year storm event plus 40% on stored volumes. Adequate freeboard must be provided between the base of the soakaway structure and the highest recorded annual groundwater level identified in that location. Any SuDS or soakaway design must include adequate groundwater monitoring data to determine the highest winter groundwater table in support of the design. The applicant is advised to discuss the extent of groundwater monitoring with the Council's Engineers.

Supplementary guidance notes regarding surface water drainage are located here [Drainage Planning Consultations](#). [Arun District Council](#) on Arun District Councils website. A surface water drainage checklist is available on Arun District Councils website, this should be submitted with a Discharge of Conditions Application.”

Kind regards

Sarah Burrow

Engineering Assistant, Engineering Services

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Current working pattern: Monday 8am-2:30pm, Tuesday 8am-5:30pm, Wednesday 8am-5pm, Thursday 8am-5:30pm, Friday 8am-11:30am.

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From: Planning.Responses <Planning.Responses@arun.gov.uk>

Sent: 09 July 2021 09:19

To: Land Drainage [REDACTED]

Subject: Planning Consultation on: BE/104/21/PL

To: Engineers (Drainage)

NOTIFICATION FROM ARUN DISTRICT COUNCIL

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Planning Permission

Application No: BE/104/21/PL
Registered: 7th July 2021
Site Address: Land Adjoining the Tesco Express 351 Chichester Road Bognor Regis PO21 5AN
Grid Reference: 492246 100784
Description of Works: Erection of 2 No. 2-storey dwellings consisting of 3 No. 2 bed units & 4 No. 3 bed units, access, parking, cycle storage, bin store and other associated landscape works. This site is in CIL Zone 4 (Zero Rated) as flats.

The Council have received the above application.

[Click here to view the application details](#)

Should you have any comments to make, these should be sent by replying to this email by 12th August 2021. You can also monitor the progress of this application through the Council web site:

www.arun.gov.uk/planning.

The application will be determined having regard to the development plan policies (if any are relevant) and other material considerations. The development plan can be accessed via the website <https://www.arun.gov.uk/development-plan> as can the leaflet how to respond to planning applications <https://www.arun.gov.uk/planning-application-comments> which deals with material planning considerations.

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.

Should the application go to appeal the Planning Inspectorate will publish any comments made to the Council on their website: <https://www.planningportal.co.uk/info/200207/appeals> but they will protect personal details.

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

Yours sincerely

Maria Tomalova

Planning Officer- Arun District Council

Telephone: 01903 737510

Email: maria.tomalova@arun.gov.uk

PLCONSULT (ODS) 2020