

From: Laura Gibbons [REDACTED]
Sent: 15 September 2020 12:14
To: Planning.Responses [REDACTED]
Cc: Raymond Cole [REDACTED]
Subject: BE/91/20/DOC- Land West of New Barn Lane

Engineers Comments Regarding Condition 5- Surface Water Drainage

Plans have been submitted for the proposed surface water drainage scheme. The details submitted are insufficient, please can the applicant supply the following information:

1. Winter groundwater monitoring results.
2. Winter infiltration testing results.
3. Calculations supporting design. Calculations should be provided in both paper and mdx format. These should also include calculations of greenfield runoff rates.
4. Impermeable areas plan. Preferably in dwg format to facilitate paperless review.
5. The proposed discharge rates are very low in some locations. A minimum permissible discharge rate of 2l/s is usually applied across the district because of the increased risk of blockage at lower flows. Please detail proposed aperture sizes so that this can be further reviewed.
6. Site specific construction detail drawings of the attenuation basins- at least two perpendicular cross sections must be provided per basin. Dimensions, levels, construction detail must all be shown.
7. Site specific construction detail drawings of attenuation tanks.
8. Site specific construction details of all flow control devices and headwalls.
9. Flotation calculations supporting the design.
10. Details of how adequate treatment of surface water is being achieved prior to discharge to watercourse. Details should be in accordance with CIRIA C753 chapter 26, i.e. pollution hazard indices and mitigation indices fully detailed.
11. A plan showing a 3m buffer to all watercourses. Note this buffer must be taken from top of bank.
12. A plan showing a 3m buffer around basins. Note this buffer must be taken from top of bank.
13. Details of bed levels of ditches, including invert levels of pipes.

14. A plan showing root potential areas and tanks. There must be no overlap between root potential areas and tanks and basins.
15. A maintenance manual.
16. Exceedance flow plans.
17. Evidence that land drainage consent has been applied for for the connections to the ditches.

For full details of our requirements I would advise that the applicant looks at and completes our checklist, which is available here: <https://www.arun.gov.uk/surfacewater>

We will provide fully detailed comments once the above information has been supplied. If this information cannot be supplied within the application timescales we would recommend the applicant withdraw this application until such a time as a full package of information is available.

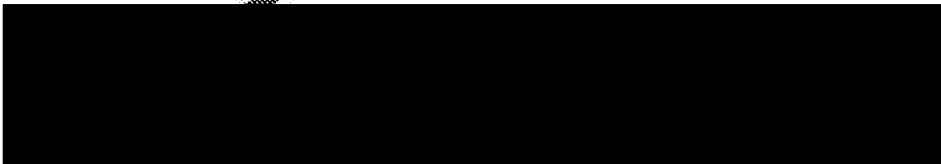
Regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



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