

## SURFACE WATER DRAINAGE STATEMENT - BICESTER KME

1. The site is split between infiltration and gravity highway drainage to manhole S100.
2. The discharge rate does not exceed the site wide drainage strategy.
3. The gravity system only caters for the impermeable bituminous spine road.
4. The gravity system will be offered to Oxfordshire County Council as part of the S38 agreement.
5. All secondary roads leading from the spine road are to be permeable paved construction (total infiltration system).
6. No private drainage to be connected into adoptable permeable paving as requested by Oxfordshire highways.
7. The permeable paved roads have a 325mm sub base layer. This thickness is structurally driven but the attached Micro-Drainage calculation demonstrates this is more than adequate for surface water storage / infiltration.
8. A worst case infiltration rate of  $(7.31 \times 10^{-6})$  has been taken from the WSP phase 2 Geo-Environmental and Geotechnical Assessment. This rate has been used to size all soakaways and permeable paving on this parcel.
9. There are no proposed S104 surface water sewers.
10. The private surface water drainage consists of a mixture of cellular soakaways and permeable paving.
11. For private permeable paving refer to drawings PJS17-06-118A & 119A & 120A
12. For private soakaways refer to drawing PJS17-06-126 and the attached Micro-Drainage calculations.

13. Further infiltration testing had since revealed better rates and an exercise is ongoing to review the size of all soakaways.

**Designed by:**



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