



DRAINAGE LEGEND

- 150mm 1/100 Surface water sewer
- 150mm 1/100 Foul water sewer
- Perforated collector pipe
- Surface water catchpit manhole
- Surface water manhole
- Foul water manhole
- Denotes extent of permeable block paving.
- Area of easement, min width of 2.5m either side of pipework
- Site boundary.
- SDS Aqua-swirl.

SURFACE WATER DESIGN NOTES 1

1. It is understood that ground conditions are unsuitable for infiltration drainage techniques. Therefore, it is proposed to drain surface water runoff via a traditional network of underground pipework to an existing Severn Trent Water sewer located in Charlton Court Road.
2. The sites greenfield runoff rate (QBAR) has been calculated as 2.5 litres / second using the IH124 method.
3. Prior to discharging surface water flows to the surface water sewer, flows will be restricted to the sites greenfield runoff rate (QBAR) using a Hydrobrake flow control device, with excess surface water flows stored and attenuated within a below ground geocellular tank, for all return periods up to and including the 1 in 100 year design event plus a 40 allowance for climate change.
4. Water quality improvements will be provided by the use of permeable block paving, a pond and a Hydrodynamic Vortex Separator 'AquaSwirl' by SDS Limited.

C	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT. SURFACE WATER DISCHARGE RATE DECREASED TO SUIT REDUCED IMPERMEABLE AREA.	JA	15.04.20
B	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT. SURFACE WATER DISCHARGE RATE DECREASED TO SUIT REDUCED IMPERMEABLE AREA.	LJK	22.05.19
A	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT.	EL	22.10.18
MK	REVISION	BY	DATE

DRAWING STATUS

PLANNING

DRAWING TITLE

DRAINAGE LAYOUT SHEET 2 OF 2

PROJECT Project Number: C21505

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Drawn EL	Chkd JdC	Scales 1:250 @ A1	Date OCT 2018
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Purpose of Issue
PLANNING

Drawing Number C21505 - SK02	Revision c
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