

- Notes
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SECTION 104 KEY

- PROPOSED HIGHWAY DRAIN
- PROPOSED ADOPTABLE FOUL WATER SEWER
- PROPOSED GULLY CONNECTION
- SITE BOUNDARY
- SOAKAWAY TEST LOCATIONS
- SA06
- SA06 HIGHWAY IMPERMEABLE AREA (TO HIGHWAY DRAIN)
- PP 01 PRIVATE IMPERMEABLE AREA (TO PRIVATE PERMEABLE PAVING)
- PP 01 PRIVATE PERMEABLE PAVING AREA
- PP H1 HIGHWAY PERMEABLE PAVING AREA

NOTE

Permeable paving calculations have been based on a slope optimization of 1:300 for the sub-base unless otherwise stated.

Permeable sub-base depths stated on this drawing are minimum depths based on no flooding in a 100 year return period (-35% climate change) event. Sub-base depths are the minimum depths based on hydraulic requirements only.

Increased sub-base depths are required where by the design (refer to relevant detail drawings) or where the subgrade is poor. Increased sub-base depths may also be required in some private drive locations to achieve minimum cover and gradients to connecting stormwater pipes.

P2 Updated to latest base layout. JB KMc 26.09.16

P1 FIRST ISSUE JB KMc 18.08.16

Rev	Description	By	Ckd	Date

For guidance only. Do not scale off this drawing.

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Client **Bellway**

Project Kingsmere, Bicester
KM5 & KM22

Title Drainage Overview
Highway Drainage, Foul Sewer
and Soakaway Design

Status	Scale	Date Created
Preliminary	1:500 @A1	18.08.2016
Project Leader	Drawn By	Checked by
KMc	JB	KMc

Drawing Number	Rev
JKK8310 -119	P2

Test Location	Test 1	Test 2	Test 3	Average	m/hr (Avg)	m/hr (Max)	m/hr (Min)
SA01	1.11E-04	2.02E-05	1.67E-05	4.93E-05	0.17748	0.39960	0.06012
SA02	5.87E-05	6.97E-05	3.18E-05	5.34E-05	0.19224	0.25092	0.11448
SA03	1.03E-04	7.20E-05	4.40E-05	7.30E-05	0.26280	0.37080	0.15840
SA04	2.75E-04	1.52E-04	2.03E-04	2.10E-04	0.75600	0.99000	0.54720
SA05	9.28E-05	7.08E-05	3.22E-05	6.53E-05	0.23496	0.33408	0.11592
SA06	1.62E-04	7.94E-05	4.23E-05	9.46E-05	0.34044	0.58320	0.15228
SA07	9.67E-05	6.59E-05	6.73E-05	7.66E-05	0.27588	0.34812	0.23724
SA08	1.03E-05	7.55E-06	5.56E-06	7.80E-06	0.02809	0.03708	0.02002
SA09	1.67E-06	1.14E-06	-	1.41E-06	0.00506	0.00601	0.00410
SA10	1.59E-06	1.16E-06	2.42E-06	1.72E-06	0.00620	0.00871	0.00418
SA11	1.85E-06	3.26E-06	-	2.56E-06	0.00920	0.01174	0.00666
SA12	5.45E-05	3.65E-05	3.22E-05	4.11E-05	0.14784	0.19620	0.11592
SA13	6.35E-06	7.60E-06	3.05E-05	1.48E-05	0.05334	0.10980	0.02286



DISCHARGE TO DITCH 5/LS

SOAKAWAY TESTS
SA01 TO SA08
≥ 1.0M EFFECTIVE DEPTH

SOAKAWAY TESTS
SA09 TO SA13
≥ 1.5M EFFECTIVE DEPTH