

 <p><b>HDL</b> HAMIL DAVIES LIMITED Consulting Civil and Structural Engineers</p>	Name	Hamill Davies Ltd
	Address	Ivydale Lower Chase Road Swanmore Hampshire SO32 2PB
	Tel	01489 893 596
	Mobile	07831 439 699
	Fax	01489 890 715
e-mail	brian.w.hamill@btopenworld.com	

## **Bicester Gateway, Bicester**

### **Services, Foul & Surface Water Drainage Strategy**

## **1.0 Introduction**

- 1.1 This planning statement offers a general overview of the feasibility of providing services, surface water and foul drainage to the proposed development at Bicester Gateway, Bicester.
- 1.2 The development proposal, as shown by the umc Architects drawing no. 16084 P102 included within Appendix A, includes for hotel and office accommodation on greenfield sites.

## **2.0 Services Strategy**

- 2.1 The proposed development is located on greenfield land adjacent to the A41 as shown by the umc Architects masterplan included within Appendix A.
- 2.2 The proposed development is to be serviced by extending the existing services, shown on HDL drawing nos. 16-2625-001 P1, 002 P1, 700 P1 & 701 P1 included within Appendix B, into the site.
- 2.3 BT apparatus runs adjacent to the development sites as shown by HDL drawing nos. 16-2625-700 P1 & 701 P1. The new telecommunications requirement will be connected to the adjacent BT network.
- 2.4 SGN service returns included within Appendix C indicate that there are no gas mains in the vicinity of the site. A new gas supply will need to be requisitioned from SGN or an on site gas tank installed.
- 2.5 HDL drawing no. 16-2625-002 P1 shows the routes of existing Thames Water water mains. The development will be connected to the water main closest to the development sites.
- 2.6 HDL drawing nos. 16-2625-700 P1 & 701 P1 shows the location of HV & LV cables which run adjacent to the site. The new supply will be fed to the development from the existing electricity cables via on site substations if required.

## **3.0 Foul Drainage Strategy**

- 3.1 HDL drawing no. 16-2625-001 P1 shows the existing adopted drainage network in proximity to the development sites which discharge to the Bicester Sewerage Treatment Plant.
- 3.2 HDL drawing no. 16-2625-551 shows an existing adopted foul rising main passing through the southern development site.
- 3.3 Foul discharges from the development sites will be collected via a new on site gravity pipe system to a proposed pumping station on the line of the existing rising main in the southwest corner of the Phase 1B development site.

- 3.4 The on site sewers will be designed and constructed in accordance with the current edition of 'Sewers for Adoption'. The on-site drainage layout will be designed as a gravity fed system. An on-site pumping station will be required to allow discharge from the development site to the existing rising main.
- 3.5 Connection to the existing foul drainage system will need to be agreed with Thames Water as part of a Section 104 agreement.

#### **4.0 Surface Water Drainage Strategy**

- 4.1 The Code of Practice for Sustainable Drainage Systems provides a flexible approach to drainage systems with a wide range of components and includes a hierarchy of techniques. These are:-
- Prevention - The use of good site design and housekeeping measures on site to prevent run-off and pollution:-
1. Source Control - Control of run off at or very near to its source.
  2. Site Control - Management of water from several sub catchment areas.
  3. Regional Control - Management of run off from several sites, typically in a detention pond or wetland.
- 4.2 With the above in mind surface water disposal will respect the hierarchy of techniques outlined above.
- 4.3 Prevention will be at the forefront of the development of the site with the site set out to maximise the areas of soft landscaping.
- 4.4 Source control forms the basis of the surface water drainage strategy and will be introduced in the following ways:-
- Surface water will be attenuated and discharged to the existing surface water drainage ditch in a controlled manner attenuating using permeable paving and hydrobreaks as shown by HDL drawing nos. 16-2625-500P2 & 501P2 included within Appendix B.
- 4.5 Rainfall within soft landscaped areas which are minimal will be allowed to permeate through the ground in order to mimic as closely as possible the natural drainage from the site before development.

## **5.0 Conclusions**

- 5.1 The above shows that it is feasible to provide both services and foul and surface water drainage to the proposed development sites at Bicester Gateway.

## **Appendix A**

### **Umc Architects Masterplan**

Site plan showing proposed development phases I A and I B. The site is bounded by the proposed Bicester Gateway Road to the north and east, and the proposed Bicester Gateway Road to the south and west. The site is divided into two phases, I A and I B, by a proposed road. The site is shown in a light blue color, indicating the proposed development. The surrounding area is shown in a light green color, indicating the existing landscape. The site is located in the Bicester Gateway area, near the Bicester Gateway Road and the Bicester Gateway Road. The site is bounded by the proposed Bicester Gateway Road to the north and east, and the proposed Bicester Gateway Road to the south and west. The site is divided into two phases, I A and I B, by a proposed road. The site is shown in a light blue color, indicating the proposed development. The surrounding area is shown in a light green color, indicating the existing landscape. The site is located in the Bicester Gateway area, near the Bicester Gateway Road and the Bicester Gateway Road.



**SCHEDULE OF ACCOMMODATION**

<b>PHASE I A</b>	- 2.56 Acres (1.043 Ha)
<b>PHASE I A Land to be Retained for Future Phase II Road Widening</b>	- 0.02 Acres (0.01 Ha)
<b>Total Area PHASE I A</b>	- 2.58 Acres (1.044 Ha)
<b>PHASE I B</b>	- 6.56 Acres (2.65 Ha)
<b>PHASE I B Land to be Retained for Future Phase II Road Widening</b>	- .25 Acres (0.1 Ha)
<b>Total Area PHASE I B</b>	- 6.81 Acres (2.75 Ha)

<b>PHASE I A</b>
Hotel
Car Parking Spaces
- 149 Bedrooms
- 146 (Including 8 Accessible Spaces)

<b>PHASE I B</b>
Units 1
Units 2
Units 3
Car Parking Spaces
- 37,038 sq ft
- 37,038 sq ft
- 37,040 sq ft
- 37,038 sq ft
- 300 sq ft
- 300 (Including 25 Accessible Spaces)

**BOUNDARY**



**Bicester Gateway, Bicester**  
Masterplan - Phase 1

**Bloombridge**  
Development Partners

**umc architects**

Drawn By: [Name]  
Checked By: [Name]  
Date: [Date]  
Scale: 1:1000  
Drawing No: 16084\_P102

**Appendix B**  
**HDL Drawings**

















**Appendix C**  
**Gas Service Returns**

**Subject:** RE: Gas Utility Apparatus enquiry Bicester Oxfordshire  
**From:** Plant Location/SGN (plantlocation@sgn.co.uk)  
**To:** brian.w.hamill@btopenworld.com;  
**Date:** Thursday, December 8, 2016 2:23 PM

Dear Customer

Thank you for contacting us.

Our records show that we have no gas mains in the area of your enquiry.

Gas pipes owned by other gas transporters and privately owned pipes may be in this area. Information about these pipes should be obtained from the owners. When we know the location, they will be represented on the plans as a shaded area and/or a series of x's.

If you have any further enquiries, please contact the number below.

Regards

SGN - Plant Location Team

Phone: 0800 912 1722

**Janet MacCuish, SHE Admin**

T: +44 0141 418 4059

E: [janet.maccuish@sgn.co.uk](mailto:janet.maccuish@sgn.co.uk)

SGN, 95 Kilbirnie Street, Glasgow G5 8JD

[sgn.co.uk](http://sgn.co.uk)

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