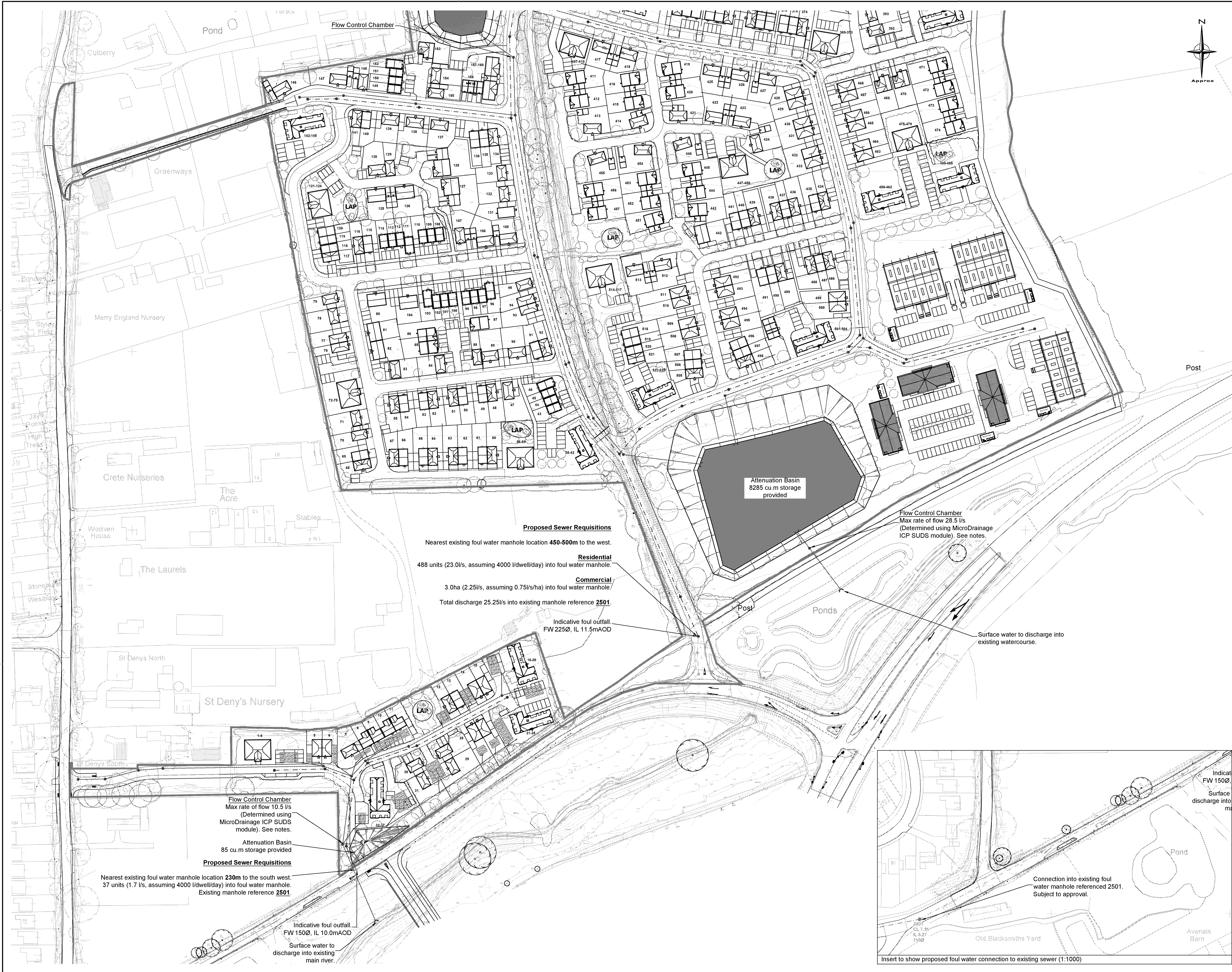




Legend

Indicative site boundary

Existing topographic survey information shown in GREY. Reproduced from MK Surveys Drawing ref. 21351

Existing surface water sewer inferred from Southern Water sewer records

Existing foul water sewer inferred from Southern Water sewer records

Proposed outline adoptable surface water drainage

Proposed outline adoptable foul water drainage

Proposed outline foul water sewer requisition

Proposed indicative geo-cellular storage

Notes

1. The purpose of this drawing is to illustrate a notional surface and foul water drainage strategy. It does not purport to be a design for construction.

2. Detailed hydraulic modelling has not been undertaken in the preparation of this strategy.

3. MicroDrainage Rural Runoff Estimation (ICP SUDS) and Quick Storage Design modules have been used to estimate existing runoff and the volume of attenuation required for the proposed development.

4. The Surface Water Drainage Strategy is outlined below:

4.1. The site is considered to be two distinct catchments; namely, the larger main body of the site and the smaller south-western catchment.

4.2. It is assumed that the 100 year + 40% storm is the reference event for both catchments.

4.3. The Flood Estimation Handbook (FEH) inputs have been used when estimating attenuation requirements.

4.4. It is assumed that runoff is to be restricted to "greenfield rates"; namely, Qbar, for the site in its entirety. Due to practical constraints the discharge rate from the south western parcel will be increased over the Qbar rate with the corresponding reduction in the discharge from the main body of the site.

4.5. The receiving watercourse will be the same for both catchments and the discharge rate into that body of water will not exceed Qbar for full site. All Qbar/permissible discharge estimates are based upon the proposed impermeable areas only and do not include proposed green areas.

4.6. Drained area/contributing catchments have been measured in AutoCAD and are outlined below.

4.7. The strategy depicts attenuation being provided by detention basins. During detailed design it may be possible to reduce the basin provision by introducing the use of modular storage cells (e.g. serving individual plots).

4.8. It is assumed the existing levels will be indicative of proposed ground levels.

4.9. Basin shapes and locations are indicative and are subject to design following preparation of detailed planning layout and proposed levels.

4.10. The following summarises parcel estimates:

Main body of site

Drained area102000 sq.m

Qbar27.5 l/s

Revised discharge rate28.5 l/s

Attenuation required9845 - 14048 cu.m

Attenuation provided12785 cu.m

South-western parcel

Drained area5400 sq.m

Qbar2 l/s

Revised Discharge Rate10.5 l/s

Attenuation required278 - 439 cu.m

Attenuation provided347 cu.m

5. In respect of individual parcels the surface water drainage strategy has been developed as two distinct systems:

5.1. Main body of site:

5.1.1. Attenuation provided by two basins that are linked via the proposed strategic network with flows balanced between the two. Final discharge limited to 28.5 l/s.

5.2. South-western parcel:

5.2.1. Attenuation provided by at-source storage within private areas, it is anticipated the geo-cellular storage will be used with individual controls restricting flow into the strategic system.

5.2.2. Prior to final discharge at 10.5 l/s, attenuation by basin.

6. The Foul Water Drainage Strategy is summarised below for both catchments:

6.1. Pipework generally following the watershed direction of the existing landform.

6.2. The site outfall is located at the low point of the site; into Water Lane.

6.3. Nearest existing foul water manhole reference 2501.

6.4. The proposed sewer requisition route shown is indicative and is subject to detailed design and a Section 98 application.

7. The Undertaker/Regulators have been consulted in respect of the available capacity within the adjacent drainage systems. Formal responses are awaited.

Sheet 1

Sheet 2

Insert

Details of discharge rates added	16-01-2018		A
	SNC	RH	PRD
Based on Drawing reference:	05-10-2015		-
	RH	PRD	KN
Issue Details	Dwn	Chd	App'd
Client			

Rydon Homes & Gleeson Strategic Land

Land to the North of Water Lane, Angmering

Outline Drainage Strategy Sheet 2

Job No.	Dwg No.	Revision
19495	Nth-301-002	A
Scale	Date	Frame Dimensions rmm
1:1000	October 2017	(A1) 791 x 544
Drawn	Checked	Approved
RH	PRD	KN

London

Kent

Derby

Cardiff

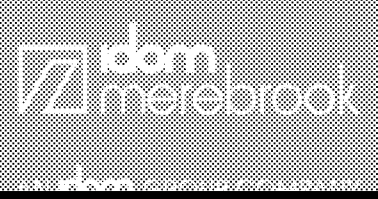
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