0m 10m 20m 30m 40m 50m
1:500m

Surface Water Drainage Strategy:

1. In order to provide an acceptable surface water drainage strategy for the proposed development the SuDS hierarchy for sustainable drainage has been followed.
- Winter monitoring has shown that the recorded groundwater levels preclude the use of soakaways as the means of surface water disposal with the highest recorded level being 0.09m below ground level
- The nearest watercourse is 0.25Km east of the site and any access to it will be over third party land to which the developer has no rights. The new Water UK 'Design & Construction Guidance for Foul and Surface Water Sewers' precludes the requisitioning of a surface water outfall to a watercourse so this solution is not achievable.
- Southern Water asset plans show that there are no public surface water sewers in the vicinity that would provide a discharge solution.
- Agreement has been reached with Pye Homes that the limited discharge from the site of 2.0 lits/sec can drain into the drainage network serving their adjacent development.

2. Utilising the allowable discharge of 2.0 lits/sec and catering for the 1 in 100 year storm event with an additional 40% allowance for climate change and incorporating a further 10% allowance on the impermeable area for '*urban creep*' the volume of attenuation required calculated by the MicroDrainage suite is 61.5m³.

3. It is proposed that this volume will be stored in a cellular 'Aquacell' tank at the southern end of the site prior to discharging through a 'Hydro Brake' vortex flow control into the Pye Homes network.

4. All surface water drainage features and pollution control measures will be maintained by the site specific management company set up for any site maintenance requirements and which will be funded by an annual payment from residents.

Foul Water Drainage Strategy:

1. The nearest public foul sewer is situated 55 metres west of the site in Oak Tree Lane. Due to the level differences between the site and the nearest manhole Ref 9202 it is not possible to provide a gravity discharge from the site to the public sewer.

2. Agreement has been reached with Pye Homes that the foul water discharge from the development can discharge into the foul sewer system serving their adjacent development .

Legend:

- Manhole with Hydro Brake limiting discharge
- Domestic surface water gravity sewer
- Domestic foul water gravity sewer
- Type 3 manhole - 450Ø
- Type 4 inspection chamber - 280Ø
- ST Silt trap inspection chamber - 450Ø
- Surface water attenuation storage
- FFL: 11.60 Proposed Finished Floor Level
- Flood Flow Route

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
CDM Regulations 2015

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of live highway
- Services to be located prior to any excavation work being undertaken
- Working on live foul sewers
- Deep excavations

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Rev.	Date	Details	Initials
C	10.11.21	Parking amended	KN
B	08.11.21	Foul & surface water drainage systems amended to gravity discharges	KN
A	12.05.21	Initial issue	KN

Drawing Status
PRELIMINARY FOR PLANNING

Project
RYEFIELD FARMHOUSE
WOODGATE

Client
DOMUSEA

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Drawing Title
Engineering Details
Drainage Strategy

Drawn	Checked	Scales	Paper Size	Date
KN		1:500	A1	05.21
Job No.		Drawing No.		Revision
KNC2107		602-01		C

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Dimensions should be checked and verified on site and any discrepancies should be reported to Kazys Narbutas Consulting as soon as possible.

ARUN DISTRICT COUNCIL AL/126/21/PL