



CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.

Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Key Plan

Legend

Site Boundary

FFL 6.100 Finished floor level

Surface water sewer and manhole

Surface water drain

Proposed road gully

Proposed Modular Storage

Detention Basin

Trench Soakaway

Enhanced Swale

Proposed Permeable Paving

Roadside Enhanced Swale 1 - modelled as a single entity (refer to calculations)

Roadside Enhanced Swale 2 - modelled as a single entity (refer to calculations)

Roadside Enhanced Swale 3 - modelled as a single entity (refer to calculations)

Roadside Enhanced Swale 4 - modelled as a single entity (refer to calculations)

Roadside Enhanced Swale 5 - modelled as a single entity (refer to calculations)

3.0m buffer zone to existing watercourse

NOTES:

1. See drawing RSK PLN_1_4101 & 4103 for typical SuDS details.

2. See drawing RSK PLN_1_4100 for details of the exceedance routes.

3. This strategy is a hybrid solution, utilising infiltration where possible, with high level overflows connecting the SuDS features, with connectivity to the existing ordinary watercourse on the north western corner of the site.

4. The connection to the existing watercourse will be limited to QBAR. The whole site has been counted towards this calculation as all gardens and POS have positive drainage features within them.

5. All drainage features have been located at or above the peak ground water level, monitored during the winter period, as far as is practicable.

6. Permeable paving to be installed for all drives and private parking areas.

7. All proposed structures to be located a minimum of 3.0m from the top of bank to existing watercourse.

NOTE:

ANY DRAINAGE CONVEYANCE FEATURES THAT ENROACH IN TO THE PEAK GROUND WATER LEVEL SHALL BE SEALED TO PREVENT GROUNDWATER INGRESS.

NOTE:

LAND DRAINAGE TO BE PROVIDED IN REAR GARDENS AS ADDITIONAL MITIGATION AGAINST SHALLOW GROUNDWATER. EXTENTS TO BE CONFIRMED AT DETAILED DESIGN STAGE.

NOTE:

RAIN WATER PIPES (RWPS) TO BE CONNECTED INTO PERMEABLE PAVING SUB-BASE WHERE POSSIBLE.

NOTE:

ALL STORAGE FEATURES TO HAVE HIGH LEVEL OVERFLOWS OUT OF STRUCTURE INTO DOWNSTREAM FEATURE. IT MUST BE NOTED THAT PIPES & MANHOLES ARE NOT INCLUDED AS STORAGE IN THE CALCULATIONS.

N	22.11.2021	Design updated to latest planning layout and LPA comments. Private plot drainage amended.	AM	SM	SM
M	26.10.2021	Design updated to latest planning layout and LPA comments. Private plot drainage added.	AM	SM	SM
L	24.09.2021	Design updated to latest planning layout and LPA comments.	AM	SM	SM
K	27.07.2021	Design updated to latest LPA comments.	AM	SM	SM
J	15.06.2021	Design updated to latest planning layout and LPA comments.	AM	SM	SM
I	11.05.2021	Design updated to latest planning layout and LPA comments.	AM	SM	SM
H	18.03.2021	Design updated to latest planning layout and LPA comments.	AM	SM	SM
G	12.02.2021	Design updated to calculations.	AM	SM	SM
F	26.01.2021	Pipe references removed for clarity.	AM	SM	SM
E	15.01.2021	Layout updated to reflect latest planning layout.	AM	SM	SM
D	19.11.2020	Layout updated to latest planning layout. Areas charged shaded.	MFP	SM	SM
C	23.10.2020	Revised take account of comments made by the LPA.	SM	SM	
B	14.08.2020	Updated to latest architects information.	MFP	SM	
A	13.07.2020	Issued to support reserved matters application.	SM		
PM	03.07.2020	Preliminary issues for review.	SM		
Rev.	Date	Amendment	Drawn	Chkd.	Appt.

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Client

BARRATT
build ahead

DAVID WILSON HOMES

Project Title

DROVE LANE,
YAPTON

Status

PRELIMINARY

Drawing Title

SURFACE WATER
DRAINAGE STRATEGY
SHEET 1

Drawn	Date	Checked	Date	Approved	Date
SM	01.07.2020				
Scale	1:250	Orig Size	A0	Dimensions	Metres
Project No.	133647	Drawing File	133647-001-DR-CR-CR-2020-2021-Strategic Site Drainage.dwg		
Drawing No.	PLN_1_4080	Rev.	N		

0 2.5 7.5 12.5m

Scale 1:250

APLA DISTRICT COUNCIL, V03030000