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.

Legend

Direction of overland flood flow in the most severe events only

This hatched zone is highway run off that will be collected in the existing highway drainage in the main road (62233). This replicates the existing situation.

Enhanced Swale SW2
75m x 2.5m x 1.65m dp
30% Porosity
Storage Volume -93m³
Base of Trench 5.72
Cover level 6.90
Effective depth 1.15m

Enhanced Swale SW1
60m x 2m x 1.85m dp
30% Porosity
Storage Volume -72m³
Base of Trench 5.25
Cover level 6.90
Effective depth 1.15m
Water level approx 5.25 worst case

Pond1
Base level 4.65
Top of bank 5.80
Depth of pond 1.0m
Approximate volume 85.7m3
Water level approx 4.80 worst case

Enhanced Swale SW3
75m x 2.5m x 1.65m dp
30% Porosity
Storage Volume -93m³
Base of Trench 5.72
Cover level 6.90
Effective depth 1.15m

Pond2
Base level 4.75
Top of bank 5.75
Depth of pond 1.0m
Approximate volume 606m3
Water level approx 4.75 worst case

Soakaway SA1 (high void ratio cells)
8.0m x 10.0m x 0.8m dp
95% Porosity
Storage Volume =64m³
Base level 3.40
Top of cells level 4.20

Pond3
Base level 6.30
Top of bank 6.90
Depth of pond 0.6m
Approximate volume 205m3
Water level approx 5.88 worst case

Pond4
Base level 6.50
Top of bank 6.90
Depth of pond 0.4m
Approximate volume 121m3
Water level approx 5.41 worst case

Pond5
Base level 6.20
Top of bank 6.60
Depth of pond 0.4m
Approximate volume 116m3
Water level approx 5.60 worst case

Pond6
Base level 6.20
Top of bank 6.60
Depth of pond 0.6m
Approximate volume 123m3
Water level approx 5.79 worst case

Pond7
Base level 4.50
Top of bank 4.90
Depth of pond 0.4m
Approximate volume 256m3
Water level approx 4.25 worst case

Pond8
Base level 4.20
Top of bank 4.95
Depth of pond 0.75m
Approximate volume 119m3
Water level approx 3.75 worst case

Pond9
Base level 3.70
Top of bank 4.45
Depth of pond 0.75m
Approximate volume 119m3
Water level approx 3.20 worst case

Pond10
Base level 4.50
Top of bank 5.50
Depth of pond 1.0m
Approximate volume 254m3
Water level approx 4.20 worst case

Soakaway SA2 (high void ratio cells)
6.0m x 4.0m x 0.6m dp
95% Porosity
Storage Volume -13.2m³
Base level 4.25
Top of cells level 4.65

Soakaway SA3 (high void ratio cells)
6.0m x 6.0m x 0.4m dp
95% Porosity
Storage Volume =14m³
Base level 5.01
Top of cells level 5.41

Soakaway SA4 (high void ratio cells)
8.0m x 8.0m x 0.4m dp
95% Porosity
Storage Volume -26m³
Base level 5.73
Top of cells level 6.13
Water level approx 5.90 worst case

Soakaway SA5 (high void ratio cells)
23.0m x 2.2m x 1.2m dp
30% Porosity
Storage Volume -22m³
Base of Trench 5.70
Cover level 7.30
Effective depth 1.30m
Water level approx 5.59 worst case

Soakaway SA6 (high void ratio cells)
13.0m x 12.0m x 0.4m dp
95% Porosity
Storage Volume -42m³
Base level 4.75
Top of cells level 5.15

Soakaway SA7 (high void ratio cells)
7.0m x 7.0m x 0.4m dp
95% Porosity
Storage Volume -19.5m³
Base level 4.90
Top of cells level 5.30

Soakaway SA8 (high void ratio cells)
5.0m x 5.0m x 0.4m dp
95% Porosity
Storage Volume =10m³
Base level 5.25
Top of cells level 5.65

Soakaway SA9 (high void ratio cells)
8.0m x 8.0m x 1.2m dp
95% Porosity
Storage Volume - 77m³
Base level 4.45
Top of cells level 5.65

Soakaway SA10 (high void ratio cells)
8.0m x 8.0m x 0.4m dp
95% Porosity
Storage Volume -32m³
Base level 4.88
Top of cells level 5.28

Soakaway SA11 (high void ratio cells)
7.0m x 7.0m x 0.4m dp
95% Porosity
Storage Volume =19.5m³
Base level 5.25
Top of cells level 5.75
Water level approx 5.79 worst case

Soakaway SA12 (high void ratio cells)
7.0m x 7.0m x 0.4m dp
95% Porosity
Storage Volume -19.5m³
Base level 5.01
Top of cells level 5.41

Soakaway SA14 (high void ratio cells)
8.0m x 10.0m x 0.8m dp
95% Porosity
Storage Volume -64m³
Base level 4.10
Top of cells level 4.82
Water level approx 5.24 worst case

Soakaway SA15 (high void ratio cells)
9.5m x 10.0m x 0.4m dp
95% Porosity
Storage Volume =38m³
Base level 4.65
Top of cells level 5.25

Soakaway SA16 (high void ratio cells)
7.0m x 6.5m x 0.4m dp
95% Porosity
Storage Volume =18m³
Base level 4.45
Top of cells level 4.85

Soakaway SA17 (high void ratio cells)
7.0m x 6.0m x 0.4m dp
95% Porosity
Storage Volume -17m³
Base level 4.50
Top of cells level 4.90

Soakaway SA18a (high void ratio cells)
4.5m x 12.0m x 0.8m dp
95% Porosity
Storage Volume =18m³
Base level 4.08
Top of cells level 4.88

Soakaway SA19 (high void ratio cells)
6.0m x 10.0m x 0.8m dp
95% Porosity
Storage Volume =64m³
Base level 3.40
Top of cells level 4.20

Soakaway SA19b (high void ratio cells)
4.5m x 12.0m x 0.8m dp
95% Porosity
Storage Volume =18m³
Base level 4.08
Top of cells level 4.88

Soakaway SA20 (high void ratio cells)
12.0m x 5.6m x 0.4m dp
95% Porosity
Storage Volume -17m³
Base level 4.25
Top of cells level 4.65

Soakaway SA21 (high void ratio cells)
6.0m x 10.0m x 0.8m dp
95% Porosity
Storage Volume =64m³
Base level 3.40
Top of cells level 4.20

Soakaway SA22 (high void ratio cells)
6.0m x 4.0m x 0.4m dp
95% Porosity
Storage Volume -13.2m³
Base level 4.25
Top of cells level 4.65

Soakaway SA24 (high void ratio cells)
11.0m x 5.0m x 0.4m dp
95% Porosity
Storage Volume - 22m³
Base level 5.90
Top of cells level 6.30

Soakaway SA21 (high void ratio cells)
8.0m x 12.0m x 0.8m dp
95% Porosity
Storage Volume =92m³
Base level 3.75
Top of cells level 4.55

Soakaway SA25 (high void ratio cells)
9.5m x 10.0m x 0.4m dp
95% Porosity
Storage Volume =38m³
Base level 4.65
Top of cells level 5.25

Soakaway SA1 (trench soakaway)
72m x 1m x 0.75m dp
30% Porosity
Storage Volume =16.2m³
Base of Trench 5.60
Cover level 6.90
Effective depth 0.8m
Water level approx 5.58 worst case

Land drainage connection between the attenuation basins

Flow control chamber

Outflow to existing ditch via a flow control chamber, restricted to 5dl/s/l (210.36l/sec)

Water level approx 4.90 worst case

Water level approx 4.70 worst case

Water level approx 5.20 worst case

Water level approx 5.60 worst case

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
B	14.08.2020	Updated to latest architects information.	MFP	SM	SM
A	13.07.2020	Issued to support reserved matters application	SM		

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Client

BARRATT HOMES built around you

DAVID WILSON HOMES

Project Title

DROVE LANE, YAPTON

Status

PRELIMINARY

Drawing Title

DETAILS OF EXCEEDANCE ROUTES

Drawn	Date	Checked	Date	Approved	Date
SM	07.2020				

Scale	Orig Size	Dimensions
1:500	A0	Metres

Project No.	Drawing File
133647	PLN_1_4100 Exceedence Plan.dwg

Drawing No.	Rev.
PLN_1_4100	B

Scale 1:500
0 5 10 15 20 25m

File Location: K:\133000-133999\133647 - DROVE LANE, YAPTON\GRAPHWP\STRUCTURE\DRAWINGS\3 - DRAINAGE DRAWINGS\PLN_1_4100 EXCEEDENCE PLAN.DWG