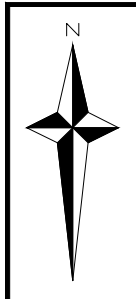


APPENDIX C

SUDS FEATURES



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.

Notes:

- This drawing is to be read in conjunction with all relevant Architects and Engineers drawings and specifications.
- Topographical Survey and Levels from NJC Survey Ltd, Drawing Number S1572 Dated 18th March 2019
- Layout based on FINC Architects Drawing 24.1874.1001 Dated August 2024.

Legend:

Site Boundary

Pipework and Manho

Enhanced Swale

Existing Ditch

Proposed Porous Paving

Proposed Cellular Storage

Proposed Pond / Detention Basin

Proposed Flow Control

P02	23.10.2024	Issued for PLANNING	LN	GXA	RD
P01	15.10.2024	Preliminary Issue	LN	GXA	RD
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

LDE

CIVILS | STRUCTURES | HYDROLOGY

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Client

BARRATT DAVID WILSON
(SOUTHERN COUNTIES)

Project Title

NEW PLACE FARM
PULBOROUGH
WEST SUSSEX

Status

PLANNING

Drawing Title

SUDS MANAGEMENT
PLAN

Drawn	Date	Checked	Date	Approved	Date
LN	09.24	GXA	09.24	RD	09.24
Scale	1:1,000	Orig Size	A1	Dimensions	m

Project No.	890815	Drawing File	890815 - RSK-ZZ-XX-DR-C-8307 SUDS Management Plan.dwg			
Drawing No.	890815	Rev.	P02			
Project	Orig	Vol/Sys	Lev./Loc	Type	Role	Draw No.

Scale

0 10 20 30 40 50m

File Location: Z:\P-LDE\PROJECTS\890815 - NEW PLACE FARM\PULBOROUGH\INFRASTRUCTURE\DRAWINGS-SB-PLANNING\890815 - RSK-ZZ-XX-DR-C-8307 SUDS MANAGEMENT PLAN.dwg

SUDS Components

Pervious surfaces

Pervious surfaces allow rainwater to infiltrate through the surface into an underlying storage layer, where water is stored before infiltration to the ground, reuse, or discharge to surface water. Porous surface replaces traditional impermeable surfaces.

Area Control

Conveyance Swales

Swales are broad, shallow channels covered by grass or other suitable vegetation. They are designed to convey and/or store runoff, and can infiltrate the water into the ground (if ground conditions allow).

Modular Storage

Modular plastic geocellular systems with a high void ratio that can be used to create a below ground infiltration (soakaway) or storage structure.

Filter strips

A vegetated/grassed area of gently sloping ground designed to drain water evenly off adjacent impermeable areas and filter out silt and other material.

Regional Control

Detention basin

Dry, vegetated surface basins that attenuate stormwater runoff by providing temporary storage and controlled release of detained runoff.

Extended detention basins

Extended detention basins are normally dry, though they may have small permanent pools at the inlet and outlet. They are designed to detain a certain volume of runoff as well as providing water quality treatment.

Ponds

Wet ponds are basins that have a permanent pool of water for water quality treatment and a shallow marsh. They provide temporary storage for additional storm runoff above the permanent water level. Wet ponds may provide amenity and wildlife benefits.

APPENDIX D CATCHMENT AREAS



Area m2						
Node	House	Garages	Driveway	Road	10% Urban Creep Contribution	Total Area (he)
S1(3)	193			298	19.3	0.0510
S2(3)				64	0	0.0064
S15(3)	202		108	193	20.2	0.0623
S3(3)	208		98	612	20.8	0.0939
S4(3)				368	0	0.0368
S5(3)	475	59	138	256	47.5	0.0986
S6(3)					0	0.0063
S7(3)	153	70	110	219	15.3	0.0567
S8(3)					0	0.0000
S16(3)	83	25	35	60	8.3	0.0211
S17(3)	80	25	35	50	8	0.0198
S18(3)	203	90	195	382	20.3	0.0890
S19(3)	203	90	195	305	20.3	0.0813
S20(3)				210	0	0.0210
S21(3)	153	70	110	85	15.3	0.0433
S22(3)					0	0.0000
					0	0.0000
					Total	0.7566

[illegible]

Area m2							Total Area (ha)
Node	House	Garages	Driveway	Road	10% Urban Creep Contribution		
S1 (1)	104	45	91		10.4		0.2950
S1A (1)				470	0		0.0470
S2 (1)				590	0		0.0590
S3 (1)	153	48	87		15.3		0.0303
S12 (1)	139			240	13.9		0.0393
S13 (1)	248	90	209	65	24.8		0.0637
S14 (1)				120	0		0.0120
S15 (1)	248	90	186	128			0.0577
S4 (1)	297	96	204	355	29.7		0.0892
S5 (1)	305	48	307	548	30.5		0.1239
S6 (1)	254	90	188	194	25.4		0.0751
S16 (1)	224	69	151	110	22.4		0.0576
S17 (1)		96			9.4		0.0199
S22 (1)	74	24	110	175	7.4		0.0390
S18 (1)				355	0		0.0355
S19 (1)	104	45	85	394	10.4		0.0638
S20 (1)				68	0		0.0068
S23 (1)	174	24	148		17.4		0.0363
S24 (1)	130	45	100	413	13		0.0701
Total							0.9704

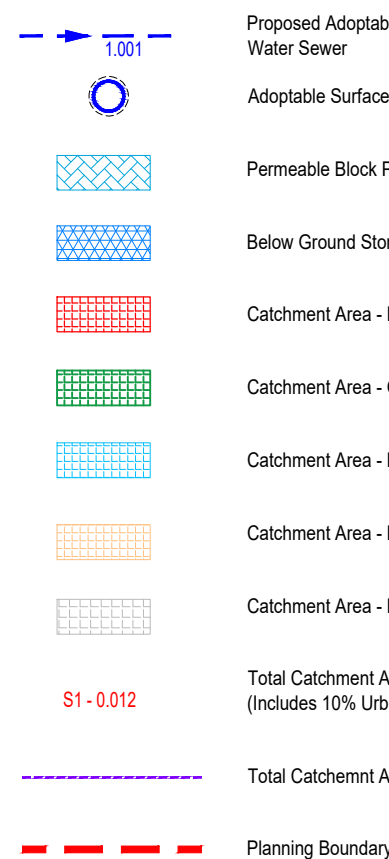
CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

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

Notes:

1. This drawing is to be read in conjunction with all relevant Architects and Engineers drawings and specifications.
2. Topographical Survey and Levels from NJC Survey Ltd, Drawing Number S1572 Dated 18th March 2019
3. Layout based on FINC Architects Drawing 24.1874.1001 Dated August 2024.

Legend



P02	25.10.2024	Issued for PLANNING	CPM	GXA	RD
P01	20.09.2024	Preliminary Issue	LN	GXA	RD
Rev.	Date	Amendment	Drawn	Chkd.	Appd.



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Client **BARRATT DAVID WILSON**
(SOUTHERN COUNTIES)

Project Title

NEW PLACE FARM
PULBOROUGH
WEST SUSSEX

Status	PLANNING
--------	----------

Drawing Title

CATCHMENT PLAN

Drawn	Date	Checked	Date	Approved	Date
LN	09.24	GXA	09.24	RD	09.24
Scale		Orig Size		Dimensions	
1:1,000		A1		m	
Project No.			Drawing File		
890815			890815 - RSK-ZZ-XX-DR-C-8305 Catchment plan.dwg		
Drawing No.					Rev.
890815	RSK	ZZ	XX	DR	C 8305 P02
Project	Orig.	Vol/Sys.	Loc./Loc.	Type	Role
					Draw. No.

Scale

0 10 20 30 40 50m