Surface Water Manhole Schedule

No.	CL	IL	Depth	Construction	Cover	Notes
S1	87.300	86.750	0.550		B125	Rodding eye
S2	87.300	86.510	0.790	PPIC	B125	1500Ø
S3	87.300	86.600	0.700		B125	Rodding eye
S4	87.300	86.185	1.115	PPIC	B125	1500Ø
S5	87.300	85.810	1.490	PPIC	B125	1500Ø
S6	87.300	85.510	1.790	PPIC	B125	1500Ø
S7	87.300	86.600	0.700		B125	Rodding eye
S8	87.300	85.850	1.450	PPIC	B125	1200Ø
S9	87.300	85.295	2.005	PPIC	B125	1500Ø
S10	87.300	85.215	2.085	PCC	B125	1500Ø, control
S11	82.300	81.100	1.200	PCC	B125	1200Ø
S12	81.850	80.875	0.975	PCC	D400	1200Ø
S13	81.900	80.765	1.135	PCC	D400	1200Ø
S14	81.550	80.685	0.865	PCC	D400	1200Ø
S15	81.400	80.605	0.795	PCC	D400	1200Ø
S16	81.600	80.530	1.070	PCC	D400	1200Ø
S17	81.250	80.440	0.810	PCC	D400	1200Ø
S18	81.150	80.350	0.800	PCC	D400	1200Ø
S19	81.200	80.320	0.880	PCC	D400	1200Ø
S20	81.000	80.250	0.750	PCC	D400	1200Ø
S21	80.800	80.075	0.725	PCC	D400	1200Ø
S22	80.650	79.855	0.795	PCC	D400	1200Ø
S23	80.500	79.460	1.040	PCC	B125	1500Ø, control
Outfall	80.400	79.375	1.025			Headwall, Alton H6C

Surface Water Pipeline Schedule

No	US MH	Length	IL US	IL DS	Fall	Grad.	Diameter	Construction
S1.000	S1	35.800	86.750	86.510	0.240	149.2	300	P
S1.001	S2	37.000	86.510	86.260	0.250	148.0	300	P
S2.000	S3	43.300	86.600	86.260	0.340	127.4	300	P
S1.002	S4	45.000	86.185	85.810	0.375	120.0	375	P
S1.003	S5	45.000	85.810	85.510	0.300	150.0	375	P
S1.004	S6	19.800	85.510	85.295	0.215	92.1	450	P
S3.000	S7	35.800	86.600	85.850	0.750	47.7	150	P
S3.001	S8	36.900	85.850	85.595	0.255	144.7	150	P
S1.005	S9	10.900	85.295	85.215	0.080	136.3	450	P
S1.006	S10	14.600	85.215	81.100	4.115	3.5	450	P
S1.007	S11	37.600	81.100	79.460	1.640	22.9	450	P
S4.000	S12	39.400	80.875	80.605	0.270	145.9	225	P
S5.000	S13	11.900	80.765	80.685	0.080	148.8	225	P
S5.001	S14	11.800	80.685	80.605	0.080	147.5	225	P
S4.001	S15	27.600	80.605	80.350	0.255	108.2	225	P
S6.000	S16	13.400	80.530	80.440	0.090	148.9	225	P
S6.001	S17	12.400	80.440	80.350	0.090	137.8	225	P
S4.002	S18	30.900	80.350	80.150	0.200	154.5	225	P
S7.000	S19	10.000	80.320	80.250	0.070	142.9	225	P
S7.001	S20	14.600	80.250	80.150	0.100	146.0	225	P
S4.003	S21	32.400	80.075	79.855	0.220	147.3	300	P
S4.004	S22	17.800	79.855	79.685	0.170	104.7	300	P
S1.008	S23	11.700	79.460	79.375	0.085	137.6	450	P

Foul Water Manhole Schedule

No.	CL	IL	Depth	Construction	Cover	Notes
F1	87.000	86.200	0.800	PPIC	D400	450Ø
F2	80.780	79.700	1.080	PPIC	D400	450Ø
F3	80.500	79.540	0.960	PPIC	D400	450Ø
Y	80.500	79.433	1.067			

Foul Water Pipeline Schedule

No	US MH	Length	IL US	IL DS	Fall	Grad.	Diameter	Construction
F1.000	TP	5.620	86.700	86.200	0.500	11.2	150	P
F1.001	F1	26.660	86.200	79.700	6.500	4.1	150	P
F1.002	F2	19.830	79.700	79.540	0.160	123.9	150	P
F1.003	F3	15.980	79.540	79.433	0.107	149.3	150	P

Control
S15
Hydrobrake
MD-SHE-0109-5000-0795-5000
109mm
opening

Control
S18
Hydrobrake
MD-SHE-0109-5000-0800-5000
109mm
opening

Control
S21
Hydrobrake
MD-SHE-0110-5000-0725-5000
110mm
opening

Control
S22
Hydrobrake
MD-SHE-0109-5000-0795-5000
109mm
opening

Control
S10
Hydrobrake
MD-SHE-0056-2000-2085-2000
56mm
opening

Discharge rates

A maximum greenfield discharge rate of 8.8 l/s was determined by using HR Wallingford's Greenfield Runoff Rate Estimation Tool.

Proposed rates:

Return Period	Rate
1in1	6.7 l/s
1in30	6.7 l/s
1in100+40%	6.8 l/s

Headwall
Althon H6C headwall.

Permissions
The headwall will require Land Drainage Consent.

Detailed Design
Surface water system is subject to detailed design.

Detailed Design
Foul water system is subject to detailed design.

Treatment Plant
Klargster BioTec+ 7

CL	87.30m
IL IN	86.80m
IL OUT	86.70m
Diameter	1.92m
Length	4.752m
People	25

Exceedance/blockage flow routes – Access Road
The system has been designed for the levels to fall away from the main road into the development, this then falls to a low point and will be stored on the road until it can re-enter the system and be discharged. The car park has been designed to be completely permeable and to drain to the northeast, if there is a exceedence/blockage event the water will we be store in the remaining storage and the surface until it can be discharged to the system.

EXCEEDENCE/BLOCKAGE LAYOUT - NORTH
Scale 1:250

DO NOT SCALE

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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DWS DRAWINGS, CALCULATIONS, REPORTS AND SPECIFICATIONS (WHERE APPLICABLE) AND, ALL OTHER RELEVANT ENGINEERS, ARCHITECTS & SPECIALIST DESIGN DETAILS.
2. STANDARD NOTES & DETAILS:
 Refer to drawing number 0-170 onwards for standard notes – CIVIL
 Refer to drawing number 0-180 onwards for standard details – CIVIL

SCALE BAR TEST

1:250 | 15m @ 1:250 | 1:250

All dimensions to be verified by accurate site measurement prior to commencing work or ordering materials.

KEY

- Surface Water Pipe (Private)
- Surface Water Pipe (Perforated)
- Surface Water Chamber (Private)
- Rodding Eye
- Linear Drain
- Permeable Paving – Playing Pitch
- Permeable Paving – Parking Bays
- Fin Drain
- Check Dam
- Foul Water Pipe (Private)
- Foul Water Chamber (Private)
- Site Boundary

Ref	Revision	Date	By
P1	First issue	26.03.26	LM

NOT FOR CONSTRUCTION

Issue: PRELIMINARY

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Project Title: RATBY SPORTS CLUB, DESFORD LANE, RATBY

Drawn	Engineer	Checked
LM	LM	BP

Scale at	Date
1:250 @ A1	MAR 2026

Drawing Title: EXCEEDENCE/BLOCKAGE LAYOUT - NORTH

Project No.	Drawing No.	Revision
25-22211	0-502	P1

BIM Code