

SURFACE WATER MANHOLE SCHEDULE								
MH Ref	MH Internal Diameter	Cover Level	Depth of MH	Sump Depth	MH Type	MH Cover	Pipe Connections	Comments
SW-1	450 mm	50.095 m	0.801 m	0.000 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 RWP-1.00 100 mm Dia IL=49.294 m SW-1.00 100 mm Dia IL=49.294 m	
SW-2	450 mm	50.050 m	0.831 m	0.000 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 SW-1.00 100 mm Dia IL=49.219 m SW-1.01 100 mm Dia IL=49.219 m	
SW-3	450 mm	50.026 m	1.255 m	0.300 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 3 SW-1.01 100 mm Dia IL=49.071 m RWP-3.00 100 mm Dia IL=49.071 m SW-1.02 100 mm Dia IL=49.071 m	Catchpit
SW-4	450 mm	49.935 m	1.202 m	0.300 m	PVC	Min Opening 430 x 430 Grade B125	No of pipe connections 2 SW-1.03 100 mm Dia IL=49.033 m SW-1.04 100 mm Dia IL=49.033 m	Flow Control Manhole Flow restricted by 20mm orifice
SW-5	450 mm	50.050 m	1.108 m	0.300 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 SW-2.00 100 mm Dia IL=49.242 m SW-2.01 100 mm Dia IL=49.242 m	Catchpit
SW-7	450 mm	50.017 m	1.205 m	0.300 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 3 SW 4.00 100 mm Dia IL=49.112 m RWP-6.00 100 mm Dia IL=49.112 m SW 4.01 100 mm Dia IL=49.112 m	Catchpit
SW-8	450 mm	49.838 m	1.222 m	0.300 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 SW 3.03 100 mm Dia IL=48.916 m SW 3.04 100 mm Dia IL=48.916 m	Flow Control Manhole Flow restricted by 20mm orifice
SW-9	450 mm	50.072 m	0.727 m	0.000 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 RWP-7.00 100 mm Dia IL=49.345 m SW 3.00 100 mm Dia IL=49.345 m	
SW-10	450 mm	50.115 m	0.831 m	0.005 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 2 SW 3.00 100 mm Dia IL=49.289 m SW 3.01 100 mm Dia IL=49.289 m	
SW-11	450 mm	50.007 m	1.307 m	0.300 m	PVC	Max Opening 430 x 430 Grade B125	No of pipe connections 3 SW 3.01 100 mm Dia IL=49.000 m RWP-8.00 100 mm Dia IL=49.000 m SW 3.02 100 mm Dia IL=49.000 m	Catchpit

FOUL MANHOLE SCHEDULE							
MH Ref	MH Internal Diameter	Cover Level	Depth of MH	MH Type	MH Cover	Pipe Connections	Comments
8201	1,200 mm	49.185 m	0.405 m	PC Concrete	Min Opening 1200 x 675 Grade D400	No of pipe connections 1 FW 1.02 100 mm Dia IL=48.780 m	
F-1	450 mm	50.084 m	0.599 m	PVC	Min Opening 430 x 430 Grade D400	No of pipe connections 4 SVP-5.00 100 mm Dia IL=49.485 m SVP-7.00 100 mm Dia IL=49.485 m SVP-6.00 100 mm Dia IL=49.485 m FW 1.00 100 mm Dia IL=49.485 m	
F-2	450 mm	50.134 m	0.742 m	PVC	Min Opening 430 x 430 Grade D400	No of pipe connections 2 FW 1.00 100 mm Dia IL=49.392 m FW 1.01 100 mm Dia IL=49.392 m	
F-3	450 mm	50.052 m	0.741 m	PVC	Min Opening 430 x 430 Grade D400	No of pipe connections 3 FW 1.01 100 mm Dia IL=49.311 m SVP-8.00 100 mm Dia IL=49.311 m FW 1.02 100 mm Dia IL=49.311 m	
SVP-1	100 mm	50.350 m	0.650 m	Reinforced Concrete	Standard	No of pipe connections 1 SVP-1.00 100 mm Dia IL=49.700 m	Standard

SURFACE WATER PIPE SCHEDULE									
Pipe Name	Diameter	Length	Slope	Material	Pipe Bed	Upstream Manhole	Upstream Invert	Downstream Manhole	Downstream Invert
RWP-1.00	100 mm	1.640 m	1:29	PVC	S or Z	RWP-1	49.350 m	SW-1	49.294 m
RWP-3.00	100 mm	1.254 m	1:10	PVC	S or Z	RWP-3	49.200 m	SW-3	49.071 m
RWP-6.00	100 mm	1.202 m	1:14	PVC	S or Z	RWP-6	49.200 m	SW-7	49.112 m
RWP-7.00	100 mm	1.390 m	1:25	PVC	S or Z	RWP-7	49.400 m	SW-9	49.345 m
RWP-8.00	100 mm	1.590 m	1:8	PVC	S or Z	RWP-8	49.200 m	SW-11	49.000 m
SW-1.00	100 mm	7.541 m	1:100	PVC	S or Z	SW-1	49.294 m	SW-2	49.219 m
SW-1.01	100 mm	14.755 m	1:100	PVC	S or Z	SW-2	49.219 m	SW-3	49.071 m
SW-1.02	100 mm	2.095 m	1:100	PVC	S or Z	SW-3	49.071 m	D-1	49.050 m
SW-1.03	100 mm	1.657 m	1:100	PVC	S or Z	D-3	49.050 m	SW-4	49.033 m
SW-1.04	100 mm	3.430 m	1:9	PVC	S or Z	SW-4	49.033 m		48.656 m
SW-2.00	100 mm	10.797 m	1:100	PVC	S or Z		49.350 m	SW-5	49.242 m
SW-2.01	100 mm	7.051 m	1:41	PVC	S or Z	SW-5	49.242 m		49.071 m
SW 3.00	100 mm	5.623 m	1:100	PVC	S or Z	SW-9	49.345 m	SW-10	49.289 m
SW 3.01	100 mm	9.921 m	1:34	PVC	S or Z	SW-10	49.289 m	SW-11	49.000 m
SW 3.02	100 mm	2.480 m	1:35	PVC	S or Z	SW-11	49.000 m	D-5	48.930 m
SW 3.03	100 mm	1.422 m	1:100	PVC	S or Z	D-6	48.930 m	SW-8	48.916 m
SW 3.04	100 mm	5.146 m	1:9	PVC	S or Z	SW-8	48.916 m		48.331 m
SW 4.00	100 mm	11.753 m	1:49	PVC	S or Z		49.350 m	SW-7	49.112 m
SW 4.01	100 mm	8.211 m	1:45	PVC	S or Z	SW-7	49.112 m	D-4	48.930 m

FOUL PIPE SCHEDULE									
Pipe Name	Diameter	Length	Slope	Material	Pipe Bed	Upstream Manhole	Upstream Invert	Downstream Manhole	Downstream Invert
FW 1.00	100 mm	7.458 m	1:80	PVC	S or Z	F-1	49.485 m	F-2	49.392 m
FW 1.01	100 mm	6.476 m	1:80	PVC	S or Z	F-2	49.392 m	F-3	49.311 m
FW 1.02	100 mm	21.857 m	1:41	PVC	S or Z	F-3	49.311 m	8201	48.780 m
SVP-1.00	100 mm	3.282 m	1:14	PVC	S or Z	SVP-1	49.700 m	EX FW 1	49.463 m
SVP-2.00	100 mm	4.797 m	1:20	PVC	S or Z	SVP-2	49.700 m	EX FW 1	49.463 m
SVP-3.00	100 mm	9.461 m	1:40	PVC	S or Z	SVP-3	49.700 m	EX FW 1	49.463 m
SVP-4.00	100 mm	3.817 m	1:16	PVC	S or Z	SVP-4	49.700 m	EX FW 1	49.463 m
SVP-5.00	100 mm	5.493 m	1:33	PVC	S or Z	SVP-5	49.650 m	F-1	49.485 m
SVP-6.00	100 mm	4.538 m	1:28	PVC	S or Z	SVP-6	49.650 m	F-1	49.485 m
SVP-7.00	100 mm	6.602 m	1:40	PVC	S or Z	SVP-7	49.650 m	F-1	49.485 m
SVP-8.00	100 mm	4.317 m	1:13	PVC	S or Z	SVP-8	49.650 m	F-3	49.311 m

NOTES

1. All dimensions are in meters unless expressed otherwise and all levels are shown in meters above Ordnance Datum.
2. This drawing shall be read in conjunction with the drainage schedules and standard details.
3. All existing sewer routes are to be proved on site by the contractor and any discrepancies notified to engineer.
4. All sewers shall be constructed in accordance with Part H of the Building Regulations and Sewers Sector Guidance.
5. It is the contractors responsibility to ensure compliance with current building regulations and codes of practice.
6. Reference should be made to the structural engineers details for all aspects of foundation design and construction.
7. The contractor should check all dimensions on site. Any discrepancies shall be reported to the engineer immediately.
8. Connections to the adopted drainage authority sewers shall be made under the supervision of the authority. The contractor shall be responsible for obtaining the necessary consents required from the drainage authority.
9. Bed type B,F and N shall be used for rigid pipes. Bed type Z shall be used for all gully connections and pipes under proposed carriageways with less than 700mm cover. The concrete bed and surround is to extend to the side of the trench or be of minimum width and voids filled with well compacted selected backfill.
10. All precast concrete manhole units are to conform to B.S. 5911. Precast concrete cover slabs are to be heavy duty.
11. Downstream exit pipes of 600mm dia. and over should be fitted with heavy duty safety chains across their mouths.
12. Where large differential settlement is probable, several short lengths of pipe with flexible joints should be laid on either side of the chamber.
13. Where drains pass through foundations, a flexible joint should be provided within 150mm of the face of the structure.
14. Fast setting resin mortars may be used in lieu of cement mortar for bedding manhole frames where agreed with the Engineer to enable early cover loading.
15. The concrete base slab shall be 225mm minimum thickness for chambers up to 4500mm deep. Manholes over 4500mm deep require a slab 450mm thick.
16. All manholes over 2000mm deep are to be fitted with a "DANGER TEST FOR OXYGEN" sign
17. Appropriate measures (to be agreed with the district council's building control section) are to be taken to discourage rodent entry into the properties.
18. The contractor is to keep a record of any variations made on site, including the relocation of sewers or drains, so that an as built drawing can be prepared upon completion of the project.
19. Location of RWP's and SVP's to be confirmed by the architect, Sub Stacks shall not be used unless connected to a ventilated section of the sewer in accordance with Building Regulations.

P2	DRAWING REVISED	RS	KBL	KBL	17/09/25
P1	PRELLIMINARY ISSUE	RS	KBL	KBL	01/09/25
Rev	Amendment	Drawn	Checked	Approved	Date



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Surface Water & Foul
Drainage Schedules

Sheet 6 of 6

DRAWN	RS	CHECKED	KBL	APPROVED	KBL
DATE	Aug-25	DATE	Aug-25	DATE	Aug-25
SCALE	NTS	PRJ No.	251974	SIZE	REV
DWG No.	251974/520/01			A1	P2