

DO NOT SCALE

SURFACE WATER MANHOLE SCHEDULE (NETWORK 1)
Sheet 1 of 4

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements		
			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S101	26.858										
E. 341096.767	1.462					1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
N. 398506.491			0	1.000	25.171	225					
S102	26.188										
E. 341044.805	1.200					1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
N. 398590.651			0	2.000	24.688	300					
S103	25.213										
E. 341118.711	1.200					1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
N. 398564.639			0	1.001	23.563	450					
S104	25.424										
E. 341155.375	1.509					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398550.802			0	1.002	23.465	450					
S105	25.431										
E. 341165.703	1.542					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398549.708			0	1.003	23.439	450					
S106	25.343										
E. 341173.673	1.474					1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
N. 398548.316			0	1.004	23.419	450					
S107	25.057										
E. 341177.467	1.516					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398559.058			0	1.005	23.091	450					
S108	23.919										
E. 341176.001	1.500					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398604.458			0	1.006	21.969	450					
S109											
E. 341162.972						JUNCTION					
N. 398610.133											
S111											
E. 341045.154						JUNCTION					
N. 398657.569			0	3.000	20.278	1500					
S112	23.846										
E. 341106.066	1.917					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398639.184			0	4.000	20.429	1500					
S113	24.154										
E. 341042.972	2.395					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398664.556			0	3.001	20.259	1500					
S114	24.307										
E. 341032.209	2.575					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398666.215			0	3.002	20.232	1500					
S115	24.428										
E. 341021.503	2.723					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398665.503			0	3.003	20.205	1500					
S116	25.388										
E. 340998.387	1.800					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398638.519			0	5.000	23.363	225					

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Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements		
			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S117	25.060										
E. 341005.130	1.951					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398656.446			0	5.001	22.884	225					
S118	24.647										
E. 341010.763	2.970					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398669.262			0	3.004	20.177	1500					
S119	24.247										
E. 341014.311	2.595					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398678.649			0	3.005	20.153	1500					
S120	26.754										
E. 341041.378	1.200					1500	Type C (Figure B15)	D400 (1220 x 685)	Stepped Access	No	No
N. 398528.728			0	6.000	25.329	225					
S121	26.600										
E. 340987.546	2.559					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398549.048			0	6.001	23.741	300					
S122	26.737										
E. 340977.836	3.810					2400	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
N. 398553.284			0	6.002	21.877	1050					
S123	25.945										
E. 341002.399	1.772					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398606.491			0	7.000	23.948	225					
S124	25.868										
E. 340988.207	2.835					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398611.557			0	7.001	21.983	1050					
S125	26.521										
E. 340969.594	3.622					2400	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
N. 398561.118			0	6.003	21.849	1050					
S126	25.924										
E. 340928.710	1.500					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398510.191			0	8.000	24.199	225					
S127	25.593										
E. 340898.340	1.504					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398521.739			0	8.001	23.864	225					
S128	25.604										
E. 340894.270	1.605					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398528.658			0	8.002	23.774	225					
S129	25.679										
E. 340895.422	2.806					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398536.045			0	8.003	21.823	1050					
S130	26.304										
E. 340913.139	3.556					2400	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
N. 398582.873			0	6.004	21.698	1050					
S131	24.864										
E. 340803.679	1.653					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398608.941			0	9.000	22.986	225					

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Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements		
			Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S132	24.943										
E. 340818.589	1.820					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398607.931			0	9.001	22.898	225					
S133	25.625										
E. 340869.443	1.500					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398588.720			0	10.000	23.900	225					
S134	25.349										
E. 340848.629	2.415					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398596.495			0	9.002	21.884	1050					
S135	25.327										
E. 340818.314	2.411					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398677.788			0	11.000	21.866	1050					
S136	25.375										
E. 340872.081	2.603					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398657.493			0	9.003	21.722	1050					
S137	25.553										
E. 340877.352	2.818					2400	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398671.387			0	9.004	21.685	1050					
S112a	23.261										
E. 341166.879	1.563					1500	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	No	No
N. 398614.729			0	4.000a	21.473	225					

Notes

- All works shall be in accordance with Sewers for Design and Construction Guidance (DCG) Standards and United Utilities Standard Details and Guidelines.
- Step Rungs shall be installed in accordance to BS EN 13101.
- Manholes shall be to United Utilities Standard Detail STND/19/001-012. Ladders, Safety chains and Hand railing shall be to Standard Detail STND/19/010. Back-drops shall be to Standard Detail STND/19/007.
- 150mm min concrete surround required for all adopted Manholes.
- Rocker pipes shall be provided in accordance with United Utilities Standard Detail STND/19/010.
- Pipe materials as table below or similar approved by United Utilities.
- All lateral connections will be made at soffit level to the main channel.

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
150	PVC-U
225	PVC-U
300	PVC-U
375	CONCRETE
450	CONCRETE
600	CONCRETE
750	CONCRETE
900	CONCRETE
1200	CONCRETE
1500	CONCRETE

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

Coopers Drawing List:

- 7778 / 01 Proposed S104 Drainage Layout
- 7778 / 02 Proposed Highway Setting Out
- 7778 / 03 Proposed Highway Layout
- 7778 / 04 Proposed Highway and Drainage Longsections
- 7778 / 05 Highway Construction Details
- 7778 / 06 Proposed Surface Finishes
- 7778 / 07 S38 Agreement Plan
- 7778 / 08 External Works Layout
- 7778 / 09 Private Drainage Layout
- 7778 / 10 Private Drainage Construction Details
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