

DO NOT SCALE

SURFACE WATER MANHOLE SCHEDULE (NETWORK 3)
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Manhole Number	Cover Level	Depth To Soffit	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements		
				Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S316	24.533	2.431		1	2.005	21.202	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
				2	1.009	21.202						
				3	3.000	23.100						
E. 341205.904	24.515	2.526		1	1.010	21.089	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
N. 398091.765				2	4.000	23.100						
				0	1.011	21.089						
S317	24.708	2.750		1	1.011	21.058	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341260.219				0	1.012	21.058						
N. 398071.923				0	1.012	21.058						
S318	24.941	3.029		1	5.000	21.012	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341282.632				0	5.000	21.012						
N. 398125.224				0	5.000	21.012						
S320	24.696	2.833		1	5.000	20.963	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341275.070				2	1.012	20.963						
N. 398107.098				0	1.013	20.963						
S321	25.124	3.368		1	1.013	20.856	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341314.077				0	1.014	20.856						
N. 398089.943				0	1.014	20.856						
S322	24.914	2.512		1	6.000	21.502	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341270.297				0	6.000	21.502						
N. 398253.604				0	6.000	21.502						
S323	24.902	2.484		1	7.000	21.493	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341288.203				0	7.000	21.493						
N. 398226.386				0	7.000	21.493						
S324	24.778	2.385		1	7.000	21.493	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341290.854				0	7.001	21.493						
N. 398236.225				0	7.001	21.493						
S325	24.654	2.304		1	6.000	21.450	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341291.059				2	7.001	21.450						
N. 398253.492				0	6.001	21.450						
S326	24.450	2.227		1	6.001	21.323	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341341.911				0	6.002	21.323						
N. 398253.141				0	6.002	21.323						
S327	24.512	2.309		1	8.000	23.100	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341349.324				2	6.002	21.303						
N. 398250.030				0	6.003	21.303						
S328	24.618	2.441		1	6.003	21.277	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341353.071				0	6.004	21.277						
N. 398240.441				0	6.004	21.277						
S329	24.766	2.627		1	6.004	21.239	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341351.591				0	6.005	21.239						
N. 398225.264				0	6.005	21.239						
S330	25.233	3.211		1	6.005	21.122	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341335.864				0	6.005	21.122						
N. 398181.211				0	6.005	21.122						

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Manhole Number	Cover Level	Depth To Soffit	Connections	Pipe			Manhole Size	Types		Additional Manhole Requirements		
				Code	Invert	Diams		Manhole	Cover	Ladder or Stepped Access	Safety Chain Required?	Handrails Required?
S331	25.041	2.951		1	9.000	21.190	2100	Type B (Figure B10)	D400 (600 x 600)	Stepped Access	Yes	Yes
E. 341267.695				0	9.000	21.190						
N. 398176.505				0	9.000	21.190						
S332	25.468	3.464		1	9.000	21.104	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341297.165				0	9.001	21.104						
N. 398158.934				0	9.001	21.104						
S333	25.607	3.675		1	6.006	21.032	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341323.476				2	9.001	21.032						
N. 398147.260				0	6.007	21.032						
S334	25.125	3.293		1	6.007	20.932	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341360.416				0	6.008	20.932						
N. 398131.829				0	6.008	20.932						
S335 (Flow Control)	25.435	3.745		1	6.008	20.790	2100	Type A2 (Figure B6)	D400 (1220 x 685)	Ladder Access	No	No
E. 341338.177				2	1.014	20.790						
N. 398079.352				0	6.009	20.790						
S336	25.307	4.207		1	6.009	20.725	2100	Type A2 (Figure B6)	D400 (600 x 600)	Ladder Access	Yes	Yes
E. 341355.981				0	6.009	20.725						
N. 398071.648				0	20.500	600						

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	UPV-C
225	UPV-C
300	UPV-C
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 S36 Agreement Plan
- 7778 / 08 External Works Layout
- 7778 / 09 Private Drainage Layout
- 7778 / 10 Private Drainage Construction Details
- 7778 / 11 Manhole Schedules
- 7778 / 12 Flow Control Manhole Details
- 7778 / 13 Surface Water Catchment Areas
- 7778 / 14 Surface Water Attenuation Details
- 7778 / 15 Proposed Cut and Fill Earthworks
- 7778 / 16 Plot Setting Out
- 7778 / 17 Manhole Connection Plan

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