

SURFACE WATER DEMARCATION CHAMBER SCHEDULE																	
Chamber	Easting	Northing	Cover Level	Invert Level	Depth to Soffit	Depth to Invert	Chamber Type	Restrictor Cap	Pipe Length	Pipe Diameter	Pipe Material	Chamber Diameter	Chamber Material	Cover	Cover Diameter	Gradient	IL at Connection
SD01	445608.367	404886.391	41.750	40.250	1.35	1.50	D	Yes	7.419	150	VC	450	Plastic	B125	450	60	40.126
SD06	445590.532	404840.149	39.100	36.900	2.05	2.20	D	Yes	20.555	150	VC	450	Plastic	B125	450	20	35.850
SD15	445573.217	404827.341	38.700	36.650	1.90	2.05	D	Yes	5.050	150	VC	450	Plastic	B125	450	6	35.850
SD22	445533.422	404817.884	37.800	35.900	1.75	1.90	D	Yes	4.000	150	VC	450	Plastic	B125	450	5	35.072
SD28	445494.426	404808.440	36.750	35.550	1.05	1.20	D	No	4.177	150	VC	450	Plastic	B125	450	6	34.834
SD31	445475.754	404806.626	36.650	35.150	1.35	1.50	D	Yes	3.944	150	VC	450	Plastic	B125	450	9	34.734
SD36	445439.752	404788.868	36.600	35.050	1.40	1.55	D	Yes	7.673	150	VC	450	Plastic	B125	450	11	34.371
SD41	445263.408	404824.333	36.400	35.200	1.05	1.20	D	No	5.570	150	VC	450	Plastic	B125	450	43	35.071
SD48	445212.992	404851.440	38.050	36.850	1.05	1.20	D	No	7.927	150	VC	450	Plastic	B125	450	38	36.640
SD53	445262.191	404834.922	36.600	35.400	1.05	1.20	D	No	5.168	150	VC	450	Plastic	B125	450	16	35.071
SD57	445306.501	404842.890	37.300	36.050	1.10	1.25	D	No	8.436	150	VC	450	Plastic	B125	450	22	35.673
SD65	445354.971	404844.086	38.350	37.350	0.85	1.00	D	No	8.909	150	VC	450	Plastic	B125	450	14	36.692
SD76	445423.247	404834.477	38.250	36.700	1.40	1.55	D	Yes	9.075	150	VC	450	Plastic	B125	450	50	36.518
SD79	445466.471	404818.508	36.950	34.900	1.90	2.05	D	Yes	6.340	150	VC	450	Plastic	B125	450	32	34.701
SD83	445490.313	404820.416	36.900	35.350	1.40	1.55	D	Yes	8.601	150	VC	450	Plastic	B125	450	17	34.834
SD95	445528.537	404876.601	40.950	39.750	1.05	1.20	D	No	8.495	150	VC	450	Plastic	B125	450	25	39.406
SD102	445477.152	404865.238	40.000	38.900	0.95	1.10	D	No	8.512	150	VC	450	Plastic	B125	450	26	38.572
SD104	445447.997	404877.427	41.200	40.100	0.95	1.10	D	No	5.805	150	VC	450	Plastic	B125	450	10	39.522
SD109	445392.158	404888.325	43.400	42.250	1.00	1.15	D	No	4.499	150	VC	450	Plastic	B125	450	20	42.028
SD114	445347.037	404891.150	43.200	42.050	1.00	1.15	D	No	6.095	150	VC	450	Plastic	B125	450	28	41.830
SD118	445297.681	404890.701	42.500	41.100	1.25	1.40	D	Yes	4.012	150	VC	450	Plastic	B125	450	35	40.984
SD124	445266.171	404891.224	43.100	40.500	2.45	2.60	D	Yes	5.925	150	VC	450	Plastic	B125	450	79	40.425
SD125	445256.360	404928.641	45.100	43.850	1.10	1.25	D	No	4.335	150	VC	450	Plastic	B125	450	5	43.005
SD129	445258.165	404902.279	43.550	42.300	1.10	1.25	D	No	7.093	150	VC	450	Plastic	B125	450	15	41.840
SD137	445207.224	404910.183	45.000	43.550	1.30	1.45	D	Yes	6.017	150	VC	450	Plastic	B125	450	80	43.475
SD141	445207.635	404942.859	46.500	44.850	1.50	1.65	D	Yes	4.729	150	VC	450	Plastic	B125	450	9	44.348
SD151	445249.902	404972.982	46.450	45.150	1.15	1.30	D	No	6.092	150	VC	450	Plastic	B125	450	23	44.880
SD157	445296.826	404903.438	42.500	41.300	1.05	1.20	D	No	8.753	150	VC	450	Plastic	B125	450	28	40.984
SD166	445346.580	404905.176	43.350	42.200	1.00	1.15	D	No	7.943	150	VC	450	Plastic	B125	450	21	41.830
SD171	445388.105	404902.412	43.700	42.550	1.00	1.15	D	No	10.618	150	VC	450	Plastic	B125	450	20	42.028
SD175	445392.640	404941.818	44.000	43.000	0.85	1.00	D	No	4.429	150	VC	450	Plastic	B125	450	11	42.603
SD178	445391.855	404967.141	43.400	42.400	0.85	1.00	D	No	8.716	150	VC	450	Plastic	B125	450	14	41.797
SD179	445416.435	404973.135	42.950	41.650	1.15	1.30	D	No	5.684	150	VC	450	Plastic	B125	450	18	41.338
SD190	445411.546	404898.721	43.050	42.050	0.85	1.00	D	No	9.115	150	VC	450	Plastic	B125	450	15	41.423
SD191	445450.423	404902.048	41.650	40.450	1.05	1.20	D	No	6.886	150	VC	450	Plastic	B125	450	14	39.958
SD201	445454.442	404958.708	41.850	40.650	1.05	1.20	D	No	6.091	150	VC	450	Plastic	B125	450	11	40.119
SD203	445365.234	404965.341	43.750	42.500	1.10	1.25	D	No	4.815	150	VC	450	Plastic	B125	450	24	42.300
SD214	445309.989	404966.180	44.800	43.450	1.20	1.35	D	No	5.344	150	VC	450	Plastic	B125	450	46	43.335
SD221	445274.308	404973.085	45.600	44.550	0.90	1.05	D	No	6.913	150	VC	450	Plastic	B125	450	18	44.168
SD230	445336.787	404979.911	44.500	43.250	1.10	1.25	D	No	9.049	150	VC	450	Plastic	B125	450	21	42.826
SD237	445394.566	404983.439	43.350	42.100	1.10	1.25	D	No	8.955	150	VC	450	Plastic	B125	450	30	41.797
SD243	445443.489	404988.116	42.450	41.250	1.05	1.20	D	No	8.977	150	VC	450	Plastic	B125	450	22	40.842
SD248	445480.974	404977.692	41.850	40.600	1.10	1.25	D	No	7.577	150	VC	450	Plastic	B125	450	20	40.227
SD259	445573.967	404951.542	44.000	42.750	1.10	1.25	D	No	4.242	150	VC	450	Plastic	B125	450	29	42.602
SD265	445542.551	404944.098	43.650	42.450	1.05	1.20	D	No	4.238	150	VC	450	Plastic	B125	450	20	42.235
SD271	445511.279	404950.284	42.750	41.500	1.10	1.25	D	No	4.250	150	VC	450	Plastic	B125	450	31	41.363
SD278	445491.856	404886.327	40.200	39.000	1.05	1.20	D	No	12.905	150	VC	450	Plastic	B125	450	34	38.617
SD280	445525.566	404893.935	40.900	39.650	1.10	1.25	D	No	9.130	150	VC	450	Plastic	B125	450	37	39.406
SD287	445606.639	404902.668	41.650	40.450	1.05	1.20	D	No	8.949	150	VC	450	Plastic	B125	450	28	40.126

1. All adoptable sewer works and material to be in accordance with "Code for Adopton". The Relevant British/European and Icosa Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall/must have a clear opening of 675mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Icosa Water before any sewer works are carried out.
4. Icosa Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
5. Cover slabs must carry the BSI Kitemark or will be rejected by Icosa Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 675mm x 675mm for the Icosa Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
6. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
7. Adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5m clearance from trees and hedges.
9. Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
10. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
11. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
12. Icosa Water policy is that Type "C" brick manholes and 1050mm dia manhole rings are not preferred. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sized over the channel where depth of cover to pipe soffit is 1 - 1.5m.
13. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Icosa Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
14. The minimum crushing strength for clay pipes should be as follows : 100mm dia. 40kN/m, 150mm dia. 40kN/m, 225mm dia. 45kN/m and 300mm dia. 72kN/m. The minimum crushing strength for concrete pipes should be : (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
15. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
16. There should be enough clearance to accommodate the bedding for both pipes, approx 300mm : if crossover is near the rocker then the clearance needed may be increased.

P02	Revised to suit new drainage layout.	JR	JB	28.11.2025
P01	First issue.	EL	GH	07.10.2025
REV	DESCRIPTION	SIG	CHK	DATE

AVANT HOMES

LAND OFF THURNSCOE BRIDGE
LANE, THURNSCOE, ROTHERHAM,
S63 0TX

DEMARCATION SCHEDULE
SHEET 1

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ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
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Project	Originator	Zone	Level Type Role Number