

NOTES

1. This drawing is to be read in conjunction with all relevant ARP and Architects drawings and project specifications.

2. Survey related to topographical survey supplied by Miller Homes (Yorkshire) Ltd.

3. Co-ordinates to be checked prior to works commencing. Any discrepancies to be brought to the immediate attention of ARP.

Yorkshire Water General Notes

1. All adaptable sewer works and material to be in accordance with Code for Adoption, the relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.

2. Manhole covers shall/must have a clear opening of 600mm 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 Yorkshire Water before any sewer works are carried out.

4. Cover slabs must carry the BS Kitemark or will be rejected by the Yorkshire 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 600x600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), "Technical Bulletin" issued autumn 2004 for kitemarked cover slab opening sizes.

5. The adaptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.

6. Sewers must have 5 metres clearance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).

7. 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 non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.

8. Adaptable plastic sewer pipes to be BS Kitemarked (Certified to WS 4-35-01 and BS/EN13476). Adaptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to be longer.

9. Plastic channel sections in manholes are not acceptable and clayware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the bedding.

10. The chamber size of manholes with more than one connection in them may need to be increased on increment to accommodate the connections and bends.

11. Yorkshire Water policy is not to accept Type "C" brick manhole and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening aligned over the chamber where depth of cover to pipe soffit is 1-1.5m.

12. Surface water and foul rising mains to be provided with marker tape above the rising mains.

13. If plastic pipes are to be used then the following should apply:

a. All adaptable sewers to be BS Kitemark (Certified to WS 4-35-01 and BS/EN13476).

b. Bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)

14. Where plastic pipes are proposed for adaptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.

15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adaptable sewers and a deformation test (Light-Line test) of the plastic pipes.

16. Demarcation chambers to be a min. 450mm chamber for 100mm foul & 150mm surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.

17. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.

18. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adaptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff is required.

19. Sulfate resisting cement (C20-02) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.

20. Strength of verified clay pipes (if used) to be 400N/m for 100A, 400N/m for 150A, 450N/m for 250 and 720N/m for 300A. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911-1:2002.

21. All levels of existing drainage to be confirmed prior to work commencing on site.

22. The contractor must allow for any fees required for road and sewer opening permits, sewer connections and make the appropriate applications.

24. All excavations in areas of high water tables and granular materials with high sand/silt contents shall be wrapped with a suitable geotextile filter membrane to prevent migration of sands/silts. Full height clay drains across trenches and/or at manhole locations at 25m intervals to restrict water movement along the excavation shall be provided.

25. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adaptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will be required and liaison with the Land Drainage Authority with regard to the disposal of the filter drain/land drainage runoff if necessary.

26. Do not scale from this drawing.

C

RJ

07.02.23

Notes updated on laterals

RJ

MI

B

CR

13.01.23

Updated to suit revised private drainage

MI

A

JMG

08.07.22

Updated for IWNL submission

MI

JMG

27.06.22

Issued for approval

DJC

MI

Rev

By

Date

Revision

Chk

Apvd

ARP

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TITLE

SURFACE WATER
DEMARCATON SCHEDULE

PROJECT

GYPSY LANE,
WOMBWELL

CLIENT

MILLER HOMES
(YORKSHIRE) LTD

DRAWING STATUS

PRELIMINARY

Scale

N/A

Date

MAY 22

Drawn

JMG

Chk.

DJG

Drg. No.

425/61/11.06

Rev

C

Manhole Reference	Easting (m)	Northing (m)	Cover Level (m A.O.D.)	Invert Level (m A.O.D.)	Depth To Invert (m)	Depth To Soffit (m)	Pipe Size Dia (mm)	Flow	Manhole Type	Grade Of Cover	Pipe Length (m)	Pipe Gradient (1:)	Cover & Frame (mm)	Chamber Opening (mm)	Manhole Type	Lateral Pipe Type
S1a	440020.649	402333.716	72.800	71.600 71.550	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	5.27	19.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2001	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S2a	440053.516	402345.684	71.700	70.500 70.450	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	3.80	21.50	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2002	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S3a	440064.179	402358.166	71.500	69.550 69.500	1.950 2.000	1.850 1.850	100 150	In In/Out	PPIC 450dia	D400	5.63	80.40	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2003	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S4a	440075.525	402346.847	70.950	69.210 69.160	1.740 1.790	1.640 1.640	100 150	In In/Out	PPIC 450dia	B125	4.40	73.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2004	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S4b	440102.953	402345.695	70.750	68.880 68.830	1.870 1.920	1.770 1.770	100 150	In In/Out	PPIC 450dia	D400	6.85	76.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2005	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S6a	440099.557	402317.523	70.850	69.650 69.600	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	6.97	17.40	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2006	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S9a	440160.539	402313.999	69.000	67.110 67.060	1.890 1.940	1.790 1.790	100 150	In In/Out	PPIC 450dia	B125	6.55	50.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2007	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S9b	440155.065	402304.818	69.000	67.200 67.150	1.800 1.850	1.700 1.700	100 150	In In/Out	PPIC 450dia	B125	4.89	28.90	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2008	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S10a	440182.433	402287.431	68.450	66.720 66.670	1.730 1.780	1.630 1.630	100 150	In In/Out	PPIC 450dia	B125	6.43	74.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2009	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S11a	440174.533	402274.382	68.600	66.680 66.630	1.920 1.970	1.820 1.820	100 150	In In/Out	PPIC 450dia	D400	4.66	17.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2010	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S11b	440177.121	402254.155	68.790	66.840 66.790	1.950 2.000	1.850 1.850	100 150	In In/Out	PPIC 450dia	D400	6.73	10.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2011	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S12a	440043.721	402297.640	72.150	70.950 70.900	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	6.97	38.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2012	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S13a	440050.561	402274.305	71.650	70.450 70.400	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	6.87	29.90	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2013	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S16a	440091.440	402270.180	71.450	70.150 70.100	1.300 1.350	1.200 1.200	100 150	In In/Out	PPIC 450dia	B125	6.34	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2014	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S17a	440138.442	402262.959	70.550	68.800 68.750	1.750 1.800	1.650 1.650	100 150	In In/Out	PPIC 450dia	D400	6.04	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2015	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S18a	440160.733	402236.827	69.100	67.590 67.540	1.510 1.560	1.410 1.410	100 150	In In/Out	PPIC 450dia	D400	6.42	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2016	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S19a	440209.276	402212.905	68.100	66.700 66.650	1.400 1.450	1.300 1.300	100 150	In In/Out	PPIC 450dia	D400	6.00	80.00	450x450	450x450	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2017	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S20a	440229.752	402217.800	67.800	66.160 66.110	1.640 1.690	1.540 1.540	100 150	In In/Out	PPIC 450dia	D400	6.31	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2018	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S21a	440228.323	402238.221	67.550	65.600 65.550	1.950 2.000	1.850 1.850	100 150	In In/Out	PPIC 450dia	B125	4.49	26.40	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2019	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S22a	440257.036	402253.744	66.950	65.750 65.700	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	6.30	12.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2020	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S23a	440289.637	402289.234	64.300	63.100 63.050	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	6.31	19.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2021	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S24a	440316.596	402317.960	62.250	60.550 60.500	1.700 1.750	1.600 1.600	100 150	In Out	PPIC 450dia	B125	6.31	78.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2022	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S28a	440311.022	402423.058	60.660	59.350 59.300	1.310 1.360	1.210 1.210	100 150	In Out	PPIC 450dia	B125	5.17	69.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2023	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S30a	440297.588	402379.648	61.380	60.050 60.000	1.330 1.380	1.230 1.230	100 150	In Out	PPIC 450dia	D400	6.14	53.90	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2024	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved

SURFACE WATER DEMARCATON CHAMBER MANHOLE SCHEDULE NETWORK 2																
Manhole Reference	Easting (m)	Northing (m)	Cover Level (m A.O.D.)	Invert Level (m A.O.D.)	Depth To Invert (m)	Depth To Soffit (m)	Pipe Size Dia (mm)	Flow	Manhole Type	Grade Of Cover	Pipe Length (m)	Pipe Gradient (1:)	Cover & Frame (mm)	Chamber Opening (mm)	Manhole Type	Lateral Pipe Type
S38a	440236.184	402419.712	62.000	60.800 60.750	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	5.49	25.50	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2001	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S39a	440262.183	402425.716	61.510	59.950 59.900	1.560 1.610	1.460 1.460	100 150	In In/Out	PPIC 450dia	D400	3.09	10.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2002	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S39b	440280.474	402428.410	61.000	59.700 59.650	1.300 1.350	1.200 1.200	100 150	In In/Out	PPIC 450dia	D400	5.67	15.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2003	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S41a	440219.765	402442.634	61.950	60.750 60.700	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	5.49	17.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2004	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S41b	440226.171	402447.128	61.700	60.500 60.450	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	2.50	34.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2005	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S43a	440281.128	402499.544	59.950	58.650 58.600	1.300 1.350	1.200 1.200	100 150	In In/Out	PPIC 450dia	B125	6.13	10.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2006	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S43b	440273.553	402510.303	59.450	58.410 58.360	1.040 1.090	0.940 0.940	100 150	In In/Out	PPIC 450dia	B125	7.03	18.60	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2007	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S44a	440252.457	402495.020	60.650	59.350 59.300	1.300 1.350	1.200 1.200	100 150	In In/Out	PPIC 450dia	D400	7.02	14.90	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2008	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S45a	440269.103	402461.871	60.960	59.760 59.710	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	6.02	14.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2009	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S45b	440300.603	402477.148	59.650	57.880 56.880	1.770 2.770	1.670 2.620	100 150	In In/Out	PCC 1200dia	D400	6.39	10.00	600x600	600x600	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2010	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S48a	440356.213	402515.539	54.350	53.150 53.100	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	B125	9.53	18.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2011	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S49a	440375.741	402503.476	53.150	51.640 51.590	1.510 1.560	1.410 1.410	100 150	In In/Out	PPIC 450dia	B125	8.15	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2012	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S49b	440386.729	402509.316	52.950	51.280 51.230	1.670 1.720	1.570 1.570	100 150	In In/Out	PPIC 450dia	B125	4.57	10.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2013	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S50a	440346.206	402469.698	53.900	52.700 52.650	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	5.02	21.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2014	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S51a	440360.838	402450.177	54.200	53.000 52.950	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	4.62	18.50	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2015	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S52a	440369.301	402469.998	53.600	52.240 52.190	1.360 1.410	1.260 1.260	100 150	In In/Out	PPIC 450dia	D400	3.41	10.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2016	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S52b	440374.050	402462.663	53.700	51.780 51.730	1.920 1.970	1.820 1.820	100 150	In In/Out	PPIC 450dia	D400	5.92	74.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2017	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S55a	440408.338	402473.040	52.850	51.600 51.550	1.250 1.300	1.150 1.150	100 150	In In/Out	PPIC 450dia	B125	5.27	75.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2018	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S55b	440414.968	402477.926	52.750	51.600 51.550	1.150 1.200	1.050 1.050	100 150	In In/Out	PPIC 450dia	D400	3.04	37.50	450x450	450x450	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2019	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved
S56a	440425.960	402447.446	52.650	51.450 51.400	1.200 1.250	1.100 1.100	100 150	In In/Out	PPIC 450dia	D400	5.47	20.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, to be approved by Yorkshire Water to BS 7158:2020	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved