

GD Partnership Ltd.

Consulting Engineers

The Cart Lodge, Lullingstone Lane, Eynsford, Kent, DA4 0HZ
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Email: contact@gdteam.co.uk

MANHOLE SCHEDULE

SHEET Ref.: S1C

Project No; 11 - 046

Revision; A Mar 12 B Mar 12 C Apr 12

PROJECT TITLE:- Asda West Worthing

M H Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth MH Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
STORE STORM SYSTEM 1											
1 S P/S											Not Used Rev A
2 S	6.80		150	6.000	0.800	0.650	1200	PC Ring	750x675	D400	Rev A
S2a	6.6		150	5.750	0.85	0.7	1200	PC Ring	750x675	D400	Rev A
3 S P/S	5.30	in out (Rising Main)	150 TBC	4.100	1.200	1.050	1.8Ø	GRP	As pump supplier spec	D400	Proprietary package pump station. To be installed to manufacturers recommendations. Discharge rate 10l/s. Storage required 4.5m³ below inlet invert level. Rev A
4 S CP	6.39		300	5.480	0.910	0.610	1200	PC Ring	750x675	D400	Rising main outfall chamber. Catchpit sump 450mm deep. Rev A
5 S P/I	6.39		300	5.46 In 5.40 Out	0.930 0.990	0.630 0.690	8.255x1.875Ø	GRP	As supplier spec	2 x D400	SPEL full retention interceptor P050/1CSC installed to manufacturers recommendations. Rev A
6 S CP	6.17		300 450	5.050 4.900	1.270	0.820	1800	PC Ring	750x675	D400	Catchpit, 450mm sump. Rev A
7 S BC CP	6.45		TBC 450	5.65 In 5.01 Out	0.800 1.440	TBC 0.99	1800	PC Ring	750x675	D400 Vented	Siphonic break chamber. Catchpit 450mm deep sump. Rev A
8 S	6.45		450	4.960	1.490	1.040	1800	PC Ring	750x675	D400	Rev A
9 S BC CP	6.47		TBC 450	5.65 In 5.01 Out	0.820 1.460	TBC 1.010	1800	PC Ring	750x675	D400 Vented	Siphonic break chamber. Catchpit 450mm deep sump. Rev A
9.1 S BC CP	6.47		TBC 450	5.65 In 5.01 Out	0.820 1.460	TBC 1.010	1800	PC Ring	750x675	D400 Vented	Siphonic break chamber. Catchpit 450mm deep sump. Rev B

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10 S	6.45		450	4.960	1.490	1.04	1800	PC Ring	750x675	D400	Rev A
11 S A/T	6.33 max 6.05 min		See Drawing	4.9 In 4.85 Out	1.48 1.15	0.98 Max 0.65 Min	82x17x0.5dp	GRP	n/a	n/a	On-line attenuation tank to be design and warranted by specialist sub-contractor - SDS or equivalent. All to be installed to specialist sub-contractor's recommendations. Rev A
12 S CP	6.17		450 In 300 Out	4.850 4.850	1.320 1.320	0.870 1.020	1800	PC Ring	750x675	D400	Catchpit with vortex flow control. Design head 0.55m. Discharge rate 46l/s. Catchpit sump 450mm deep. Rev A
13 S	6.17		225 300	4.800 4.800	1.370 1.370	1.145 1.07	1200	PC Ring	750x675	D400	Inverts level. Rev A
13a S	6.3		300	4.755	1.545	1.245	1200	PC Ring	750x675	D400	Rev A
14 S BC CP	6.45		TBC 450	5.65 In 5.01 Out	0.80 1.44	TBC 0.99	1800	PC Ring	750x675	D400 Vented	Siphonic break chamber. Catchpit 450mm deep sump. Rev A
15 S O/F											Not Used Rev A
15a S C/P	6.43		300	4.700	1.730	1.430	1200	PC Ring	750x675	D400	Catchpit with 450mm deep sump. Rev A
16 S											Not Used Rev A
17 S											Not Used Rev A
18 S CP	7.30		225 In 150 Out	6.100 6.100	1.200	0.975 1.05	1500	PC Ring	750x675	D400	Catchpit with vortex flow control. Design head 0.86m. Discharge rate 2l/s. Catchpit sump 450mm deep. Rev A
S18a	7.3		225	6.300	1.00	0.775	1200	PC Ring	750x675	D400	Rev A

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19 S CP	7.00		225 In 150 Out	5.740 5.740	1.26 1.26	1.035 1.11	1500	PC Ring	750x675	D400	Catchpit with vortex flow control. Design head 1.17m. Discharge rate 2l/s. Catchpit sump 450mm deep. Rev A
20 S											Not Used Rev A
21 S CP	6.49		225 In 150 Out	5.430 5.430	1.06 1.06	0.835 0.91	1500	PC Ring	750x675	D400	Catchpit with vortex flow control. Design head 0.87m. Discharge rate 2l/s. Catchpit sump 450mm deep. Rev A
22 S											Not Used Rev A
23 S CP	6.03		225 In 150 Out	5.150 5.150	0.88 0.88	0.655 0.73	1500	PC Ring	750x675	D400	Catchpit with vortex flow control. Design head 0.54m. Discharge rate 4l/s. Catchpit sump 450mm deep. Rev A
24 S C/P											Not Used Rev A
25 S P/I	5.84		150	5.05 In 4.95 Out	0.790 0.890	0.640 0.740	16.55x2.7Ø	GRP	As supplier spec	2No D400	SPEL full retention interceptor P300/1C installed to manufacturers recommendations. Rev A
61 S CP	5.40		225	5.000	0.400	0.175	1200x750	Brickwork	1200x675	D400	Catchpit 450mm sump. On existing land drain. Rev A
61a S CP	5.96		225	4.950	1.01	0.785	1000	PC Ring	750x675	D400	Catchpit 450mm deep sump. Rev C
62 S	5.96		225	4.970	0.990	0.765	1200	PC Ring	750x675	D400	Rev A
63 S CP	5.96		150 225	4.900 4.900	1.060 1.060	0.91 0.835	1200	PC Ring	750x675	D400	Catchpit 450 mm sump. Inverts level. Rev A
64 S	6.35		150	5.300	1.050	0.900	1200	PC Ring	750x675	D400	Rev A
65 S PI	6.35		150	5.25 In 5.19 Out	1.10 1.16	0.95 1.01	3.4x 1.225Ø	GRP	As supplier spec	D400	SPEL full retention interceptor P010/1CSC installed to manufacturers recommendations. Rev A
S66	6.35		150.000	5.150	1.2	1.05	1200Ø	PC Ring	750x675		Catchpit 450mm sump. Rev A

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M H Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth MH Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
OF67			150.00	5.00	-	-	-	Conc headwall			Outfall structure. Refer to detail drawing. Rev A

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M H Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth MH Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
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NOTES;

- 1 All cover levels are quoted for costing / ordering purposes only. The Contractor shall set all cover line and levels to suit proposed ground levels,
- 2 Where manholes are built over existing pipes, invert levels are quoted as interpolations of given levels for costing / ordering purposes only. The Contractor should check the invert level of the ex'g pipe and should inform GDP of any discrepancies for consideration,
- 3 Invert levels for manholes are quoted for the outgoing pipe unless stated otherwise,
- 4 Pipes in and out of manholes to be laid with level soffits unless otherwise stated,
- 5 All levels are based on existing details as taken from current topo survey,
- 6 Contractor to check all existing levels as quoted on survey / schedules and to inform GDP of any discrepancies prior to installing drainage
- 7 PPIC = 450mm dia polypropylene Inspection Chamber / PC Ring = Pre-cast Concrete Ring
- 8 Pipe connections "in" to each manhole are counted clockwise round from the "out" pipe,

MANHOLE SCHEDULE

SHEET Ref.: F1B

Project No: 11 - 046

Revision: A Mar 12 Rev B May 12

PROJECT TITLE:- Asda West Worthing

MH Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth to Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
STORE FOUL DRAINAGE											
26 FC	6.50		100	5.900	0.600	0.500	450	PPIC	430Ø	B125	Rev A
27 F AFC	6.42		100	4.40 In 4.300	2.020	1.920	1500	PC Ring	750x675	D400	Anti flood manhole refer to Standard Detail. Rev A
28 FC	6.50		100	5.660	0.840	0.740	450	PPIC	750x675	B125	Rev A
29 F AFC	6.45		100	4.20 In 4.1 Out	2.250	2.150	1500	PC Ring	750x675	D400	Anti flood manhole refer to Standard Detail. Rev A
30 FC	6.50		100	5.900	0.600	0.500	450	PPIC	750x675	D400	Rev A
31 FREC	6.50		100	5.700	0.800	0.700	100	Rodding Eye	450x450	C250	Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
32 FAFC	6.45		100	5.60 In 5.50 Out	0.850	0.750	1500	PC Ring	750x675	D400	Anti flood manhole refer to Standard Detail. Rev A
33 F	6.37		100	5.580	0.790	0.690	450	PPIC	430Ø	D400	Rev A
34 F	6.45		100	5.260	1.190	1.090	450	PPIC	430Ø	D400	Rev A
34.1F	6.50		100	5.700	0.800	0.700	450	PPIC	430Ø	D400	Rev B
34.2F	6.50		100	5.550	0.950	0.850	450	PPIC	430Ø	D400	Rev B
35 F	6.37		100	5.030	1.340	1.240	1000	PC Ring	750x675	D400	Rev A
36 F	6.30		100 150	4.470 4.420	1.830 1.880	1.730 1.730	1200	PC Ring	430Ø	D400	Rev A
37 F	6.50		100	5.850	0.650	0.550	450	PPIC	450x450	C250	Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
38 F	6.50		100	5.770	0.730	0.730	450	PPIC	450x450	C250	Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
39 F	6.50		100	5.600	0.900	0.800	450	PPIC	450x450	C250	Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
40 F	6.46		100	5.800	0.660	0.560	450	PPIC	450x450	D400	Rev A
41 F	6.45		100	5.800	0.650	0.550	450	PPIC	450x450	D400	Rev A
	6.37		100	3.850	2.520	2.420					Rev A

MANHOLE SCHEDULE

SHEET Ref.: F1B

Project No: 11 - 046

Revision: A Mar 12 Rev B May 12

PROJECT TITLE:- Asda West Worthing

M H Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth to Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
42 F			150	3.800	2.570	2.420	1200	PC Ring	750x675	D400	
43 FP/S	6.37	R Main	150 In F42	3.590	2.780	2.630					Proprietary pump station. Discharge rate 3l/s. Storage required below incoming invert 25m ² . To be installed to manufacturers recommendations. Rev A
			150 In F49	3.460	2.910	2.760					
			TBC	5.407	0.963	900 min	2500 assumed	GRP	To pump supplier spec	D400	
44 F	6.50		100	5.700	0.800	0.700	750x675	PC Conc or Bwk	750x675	C250	Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
45 F	6.36		100	5.200	1.160	1.060	450	PPIC	430Ø	D400	Rev A
46 F	6.36		100 In	4.150	2.210	2.110					
			150 Out	4.100	2.260	2.110	1200	PC Ring	750x675	D400	Rev A
47 F	6.36		100	3.770	2.590	2.490					
			150	3.720	2.640	2.490	1200	PC Ring	750x675	D400	Rev A
48 F	6.44		150	3.640	2.800	2.650	1200	PC Ring	750x675	D400	Rev A
49 F	6.42		150	3.510	2.910	2.760	1200	PC Ring	750x675	D400	Rev A
50 F	6.50		100	5.900	0.600	0.500	450	PPIC	430Ø		Internal double seal bolt down Howe & Green cover+frame recessed for floor finishes. Rev A
51 F AFC											Not used Rev A
52 F											Not used Rev A
53 F											Not used Rev A
54 F											Not used Rev A
55 F G/T											Not used Rev A
56 F S/C											Not used Rev A
57 F P/S											Not used Rev A
58 F T/P											Not used Rev A

MANHOLE SCHEDULE

SHEET Ref.: F1B

Project No: 11 - 046

Revision: A Mar 12 Rev B May 12

PROJECT TITLE:- Asda West Worthing

M H Ref	Cover Level	Pipe Flow	Pipe Size	Invert Level	Depth to Invert	Depth to Soffit	Size min	Type	Opening Size	Cover	Remarks
59 F T/P											
60 F S/C											Not used Rev A
60a F O/F											Not used Rev A

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- 3 Invert levels for manholes are quoted for the outgoing pipe unless stated otherwise.
- 4 Pipes in and out of manholes to be laid with level soffits unless otherwise stated.
- 5 All levels are based on existing details as taken from current topo survey.
- 6 Contractor to check all existing levels as quoted on survey / schedules and to inform GDP of any discrepancies prior to installing drainage.
- 7 PPIC = 450mm dia polypropylene Inspection Chamber / PC Ring = Pre-cast Concrete Ring.
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