

Block A Internal Manhole Schedule

Type	Cover Level	MH Depth to Invert	Invert Level	MH Type	MH Internal L	MH Internal W	MH internal Dia	MH Cover Size	MH Cover Type	MC Cover Class	Comments
FWMH1	44.535	650	43.885	Cast in-situ concrete	750	675		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH2	45.335	1675	43.660	Cast in-situ concrete	1200	1000		600 x 600	Recessed and double sealed and lockable	Min C 250	
FWMH3	45.335	1840	43.495	Cast in-situ concrete	1200	1000		600 x 600	Recessed and double sealed and lockable	Min C 250	
FWMH4	45.335	2000	43.335	Cast in-situ concrete	1200	1000		600 x 600	Recessed and double sealed and lockable	Min C 250	
FWMH5	45.335	2150	43.185	Cast in-situ concrete	1200	1000		600 x 600	Recessed and double sealed and lockable	Min C 250	
FWMH6	45.335	1100	44.235	Cast in-situ concrete	1200	750		1200 x 750	Recessed and double sealed and lockable	Min C 250	
FWMH7	45.335	1000	44.335	Cast in-situ concrete	1200	750		1200 x 750	Recessed and double sealed and lockable	Min C 250	

Block B Internal Manhole Schedule

Type	Cover Level	MH Depth to Invert	Invert Level	MH Type	MH Internal L	MH Internal W	MH internal Dia	MH Cover Size	MH Cover Type	MC Cover Class	Comments
FWMH12	43.310	740	42.570	Cast in-situ concrete	675	1200		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH13	43.310	870	42.440	Cast in-situ concrete	675	750		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH14	43.310	730	42.580	Cast in-situ concrete	750	1200		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH15	43.060	440	42.620	Cast in-situ concrete	675	750		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH16	43.060	630	42.430	Cast in-situ concrete	675	750		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWMH17	43.310	795	42.515	Cast in-situ concrete	675	1200		750 x 675	Recessed and double sealed and lockable	Min B 125	
FWPS 1	43.060	2050	41.010	GRP in RC Box			1200	600 x 1000	Recessed and double sealed and lockable	Min B 125	Rate = 5.5 l/s (per pump) to be in duty / standby arrangement Static Head = 5m Refer to New Haden Pump Specification Refer to drawing for pump inlet IL's
SWMH24	43.160	865	42.295	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125	Chamber to have 300mm catchpit. Polypipe RIDGISTORMSeparate Catchpits or similar
SWMH25	43.160	815	42.345	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125	Chamber to have 300mm catchpit. Polypipe RIDGISTORMSeparate Catchpits or similar
SWMH 18	43.060	690	42.370	Cast in-situ concrete	675	750		750 x 675	Recessed and double sealed and lockable	Min B 125	
SWPS 1	43.060	2000	41.060	GRP in RC Box			1200	600 x 1000	Recessed and double sealed and lockable	Min B 125	Rate = 4.2 l/s (per pump) to be in duty, standby/assist arrangement Static Head = 5m Refer to New Haden Pump Specification Refer to drawing for pump inlet IL's

Notes:

For Block A / Block B internal below ground drainage layout refer to HTS drawing 1862/DR093 & 1862/DR094

For attenuation tank and external manholes to Block A refer to drawing 1862/DR101 & 1862/DR102

For manhole / pipe bedding details refer to HTS drainage detail drawings 1862/DR200 & 1862/DR201

For sewer diversion drawing and construction detail refer to HTS drawing 1862/DR600 & 1862/DR610

External Manhole Schedule

Type	Cover Level	MH Depth to Invert	Invert Level	MH Type	MH Internal L	MH Internal W	MH internal Dia	MH Cover Size	MH Cover Type	MC Cover Class	Comments	Eastings	Northings
CWMH14	47.786	3474	44.312	Pre-cast concrete			1200	600 x 600	Solid Top	Min C 250	Manhole located along TW sewer diversion	530263.716	188293.472
CWMH15	47.996	3754	44.242	Pre-cast concrete			1200	600 x 600	Solid Top	Min C 250	Manhole located along TW sewer diversion	530265.765	188289.970
CWMH17	48.800	4950	43.850	Pre-cast concrete			1200	600 x 600	Solid Top	Min C 250	Manhole located along TW sewer diversion	530274.748	188272.298
CWMH18	48.975	5195	43.780	Pre-cast concrete			1200	600 x 600	Solid Top	Min C 250	Manhole located along TW sewer diversion	530279.956	188274.109
FWMH8	45.650	2600	43.050	Pre-cast concrete			1200	600 x 600	Recessed	Min C 250		530242.515	188345.746
FWMH9	45.500	2510	42.990	Pre-cast concrete			1200	600 x 600	Recessed	Min C 250		530239.508	188353.589
FWMH10	46.650	1315	45.335	Pre-cast concrete	1200	750		600 x 600	Recessed	Min C 250		530250.449	188313.912
FWMH11	45.650	1200	44.450	Pre-cast concrete	1200	750		600 x 600	Recessed	Min C 250		530242.594	188335.071
FWMH 32	46.335	1650	44.685	Pre-cast concrete	1200	750		1200 x 750	Recessed	Min B 125		530228.587	188318.267
FWMH 33	46.335	1700	44.635	Pre-cast concrete	1200	750		750 x 600	Recessed	Min B 125		530227.479	188321.156
FWMH 34	45.630	1310	44.320	Pre-cast concrete	1200	750		1200 x 750	Recessed	Min B 125		530226.524	188325.357
FWMH 35	45.650	2000	43.650	Pre-cast concrete			1200	600 x 600	Recessed and double sealed and lockable	Min B 125		530223.420	188333.677
FWMH 49	45.500	1000	44.500	PPIC			450	450 x 450	Recessed	Min B 125		530227.178	188348.096
SWFC 2	45.500	2290	43.210	Pre-cast concrete			1200	600 x 600	Recessed	Min C 250	Hydro-Brake Optimum, product ref: SHE-0097-5800-2200-5800, Discharge rate 5.8 l/s	530236.048	188353.712
SWFC 3	45.040	1155	43.885	Pre-cast concrete			1200	1200 x 750	Recessed	Min C 250	Hydro-Brake Optimum, product ref: SHE-0060-1600-1000-1600, Discharge rate 1.6 l/s	530243.444	188367.488
SWMH1	48.390	800	47.590	PPIC			450	450 x 450	Recessed	Min C 250		530186.181	188294.508
SWMH2	48.390	970	47.420	PPIC			450	450 x 450	Recessed	Min C 250		530198.880	188299.376
SWMH3	48.390	2340	46.050	PPIC			450	450 x 450	Recessed	Min C 250		530206.433	188279.674
SWMH4	46.650	1350	45.300	PPIC			600	300 x 300	Recessed	Min C 250		530216.630	188280.309
SWMH5	47.650	2700	44.950	Pre-cast concrete			1200	600 x 600	Recessed	Min C 250		530259.814	188299.990
SWMH6	48.800	1980	46.820	Pre-cast concrete			450	450 x 450	Recessed	Min C 250		530272.812	188274.276
SWMH7	48.689	2100	46.589	PPIC			450	300 x 300	Recessed	Min C 250		530264.085	188290.771
SWMH8	45.650	2330	43.320	Pre-cast concrete			1200	600 x 600	Recessed	Min C 250		530244.776	188335.945
SWMH9	45.500	1750	43.750	PPIC			450	300 x 300	Recessed	Min C 250		530243.132	188357.911
SWMH10	45.050	1080	43.970	PPIC			450	450 x 450	Recessed	Min C 250		530258.900	188363.734
SWMH11	45.050	1000	44.050	PPIC			450	450 x 450	Recessed	A 15		530264.704	188364.925
SWMH12	45.050	700	44.350	PPIC			450	450 x 450	Recessed	A 15		530268.021	188355.565
SWMH13	45.360	950	44.410	PPIC			450	450 x 450	Recessed	A 15		530251.331	188338.544
SWMH14	45.494	1400	44.094	PPIC			450	300 x 300	Recessed	Min C 250		530239.318	188341.618
SWMH16	47.150	750	46.400	PPIC			450	450 x 450	Recessed	Min C 250		530165.478	188349.762
SWMH17	47.000	950	46.050	PPIC			450	450 x 450	Recessed	Min C 250		530157.723	188346.965
SWMH18	47.260	1100	46.160	PPIC			450	450 x 450	Recessed	Min C 250		530153.713	188322.342
SWMH19	47.200	1250	45.950	PPIC			450	300 x 300	Recessed	Min C 250		530130.246	188314.462
SWMH19A	47.000	1350	45.650	PPIC			450	300 x 300	Recessed	Min C 250		530111.608	188314.763
SWMH19B	47.000	1600	45.400	PPIC			450	300 x 300	Recessed	Min C 250		530117.812	188325.499
SWMH28	45.930	1050	44.880	PPIC			450	450 x 450	Recessed	Min B 125		530226.662	188327.036
SWMH29	45.650	1050	44.600	PPIC			450	450 x 450	Recessed	Min B 125		530224.586	188332.452
SWMH31	45.500	1200	44.300	PPIC			450	450 x 450	Recessed	Min B 125		530220.278	188342.339

Mews and Annex Manhole Schedule

Type	Cover Level	MH Depth to Invert	Invert Level	MH Type	MH Internal L	MH Internal W	MH internal Dia	MH Cover Size	MH Cover Type	MC Cover Class	Comments	Easting	Northin
CWMH19	46.620	940	45.680	Cast in-situ concrete	1200	675		1200 x 675	Recessed and double sealed and lockable	Min B 125		530143.729	188355.823
CWMH20	46.620	1000	45.620	Cast in-situ concrete	1200	675		1200 x 675	Recessed and double sealed and lockable	Min B 125		530141.650	188361.501
FWMH 18	46.175	985	45.190	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530163.628	188379.126
FWMH 19	46.175	1025	45.150	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530160.567	188379.772
FWMH 20	46.175	1075	45.100	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530158.172	188380.277
FWMH 21	46.175	1145	45.030	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530153.486	188381.266
FWMH 22	46.175	1265	44.910	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530146.783	188382.680
FWMH 23	46.190	1450	44.740	PPIC			450	300 x 300	Recessed and double sealed and lockable	Min B 125		530144.861	188373.271
FWMH 24	46.360	1680	44.680	PPIC			450	300 x 300	Recessed and double sealed and lockable	Min B 125		530141.588	188370.409
SWFC 1	46.340	3060	43.280	Pre-cast concrete			1200	600 x 600	Recessed and double sealed and lockable	Min B 125	Hydro-Brake Optimum, product ref: SHE-0031-7000-2400-7000, Discharge rate 0.7 l/s	530154.982	188367.642
SWMH20	46.190	1100	45.090	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530145.321	188371.897
SWMH21	46.190	1250	44.940	PPIC			450	450 x 450	Recessed and double sealed and lockable	Min B 125		530154.418	188369.478
SWMH22	46.190	2870	43.320	PPIC			450	300 x 300	Recessed and double sealed and lockable	Min B 125	Silt trap prior to tank inlet. AquaCell Silt Trap or similar approved	530162.711	188366.950
SWMH22A	46.190	1385	44.805	PPIC			500	300 x 300	Recessed and double sealed and lockable	Min B 125	Silt trap prior to tank inlet. AquaCell Silt Trap or similar approved	530162.328	188368.282
SWMH23	46.340	3175	43.165	Pre-cast concrete			1200	600 x 600	Recessed and double sealed and lockable	Min B 125		530145.082	188369.941
SWPS04	44.245	1365	42.880	GRP	1200	1200		800 x 800	Recessed single sealed	Min B125	Delta Dual V3 Pump. GRP pump is to be installed in a 1200 x 1200 RC box	530151.329	188363.085

Refer to Greenside drawings for cover levels

Setting out location for manholes shown for information, TBC by Architect / Landscape architect

100mm @ A1 (50mm @ A3)

- 1

This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2

Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm.
- 3

For full set of drainage notes refer to HTS drawing 1862/DR001.

Abbreviations:-

- CL

- Cover level
- IL

- Invert level
- FWP

- Foul Waste Pipe
- RWP

- Rainwater Pipe
- CD

- Channel Drain
- SD

- Slot Drain
- TD

- Threshold Drain
- RE

- Rodding Eye
- RA

- Above Ground Rodding Access
- BD

- Backdrop
- FW

- Foul Water
- SW

- Surface Water
- CW

- Combined Water
- FG

- Floor Gully
- SSL

- Structural Slab Level
- FFL

- Finished Floor Level
- Ø

- Diameter
- TOC

- Top of Concrete
- NTS

- Not to Scale
- PC

- Pumping Chamber
- PPIC

- Polypropylene Inspection Chamber

C17	22.02.22	CR	CR	REVISED AS CLOUDED
C16	08.07.21	CR	CR	REVISED AS CLOUDED
C15	14.06.21	CR	CR	REVISED AS CLOUDED
C14	25.03.21	CR	CR	REVISED AS CLOUDED
C13	16.12.20	CR	CR	REVISED AS CLOUDED
C12	10.12.20	CR	CR	REVISED AS CLOUDED
C11	23.09.20	CR	CR	REVISED AS CLOUDED
C10	10.09.20	CR	CR	REVISED AS CLOUDED
C9	28.08.20	CR	CR	REVISED AS CLOUDED
C8	17.07.20	CR	CR	REVISED AS CLOUDED
C7	27.05.20	CR	CR	REVISED AS CLOUDED
C6	22.05.20	CR	CR	REVISED AS CLOUDED
C5	01.05.20	CR	CR	REVISED AS CLOUDED
C4	06.03.20	CR	CR	REVISED AS CLOUDED
C3	11.02.20	CR	CR	REVISED AS CLOUDED
C2	03.02.20	CR	CR	REVISED AS CLOUDED
C1	29.11.19	JH	CR	CONSTRUCTION ISSUE
Rev	Date	By	Eng	Amendments

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