

FOUL WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH (m) to Invert to Soffit	SFA7 Ref	TYPE Material	SIZE (mm)	COVER (mm)	REMARKS	PLAN
Ex. FW1	9.210	7.570	1.640	1.490	Ex. Ex.	Ex. Ex.	Ex. Ex.	Benching modified to suit new 1500 connection.	Ex. 1500
FW2	9.098	7.710	1.388	1.238	Type C* BWK	1220 x 675	D400 1220 x 600	2 No. 1000 branch connections IL = 7.930m.	1000
FW3	9.464	7.880	1.584	1.434	Type C BWK	1220 x 675	D400 1220 x 600	1 No. 1000 branch connection IL = 8.120m.	1000
FW4	9.536	8.120/8.070	1.466	1.316	Type C* BWK	1220 x 675	D400 1220 x 600		1000

NOTE
Private attenuation tank to be of cellular construction with longitudinal inspection channel.
Size = 7.8m (L) x 4.2m (W) x 0.6m (H)
Storage Volume (95% void) = 18.67m³
Construction details, structural loading, cover depths etc. are to be provided and checked by the tank manufacturer.

Legend

- Existing Foul Sewer.
- - - Existing Foul Sewer to be Abandoned
- Existing Surface Water Sewer.
- - - Existing Surface Water Sewer to be Abandoned.
- Existing Drainage Easement
- Proposed Adoptable Foul Sewer.
- - - Proposed Adoptable Foul Lateral Drain.
- - - Proposed Private Foul Drain.
- Proposed Adoptable SW Sewer.
- - - Proposed Adoptable SW Lateral Drain.
- - - Proposed Private SW Drain.
- DP Proposed Rainwater Downpipe *
- FC Proposed Foul Connection Point *
- RG Proposed Road Gully.
- YG Proposed Drainage Channel.
- Proposed Drainage Channel.

Note.
* Exact position, number and type of internal foul connections and external rainwater down pipes to be checked and confirmed by the architect prior to start on site. Architect to provide setting out information for all internal foul connections.

NOTES

- GENERAL:**
- All levels are in metres and refer to the station points shown on the survey drawing.
 - All dimensions are in millimetres unless stated otherwise.
 - Do not scale from this drawing use figured dimensions only.
 - All drawings to be checked prior to construction or manufacture. Any discrepancies to be reported to the Engineer immediately.
 - This drawing shall be used solely for its intended purpose as described in the drawing title.
- ADOPTABLE DRAINAGE:**
- All sewers which are the subject of a Section 104 Agreement are to be designed and constructed in accordance with the 'Sewers for Adoption 7th Edition' and to the satisfaction of Dwr Cymru Welsh Water.
 - The developer must self-verify and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in 'Sewers for Adoption' (SFA) 7th Edition and the requirements of Dwr Cymru Welsh Water (DCWW) as the statutory Sewerage Undertaker.
 - All sewers are to have class S bed and surround unless otherwise shown.
 - All road gully spur connections to be 150mm dia.
 - All sewer trenches located within the proposed roads are to be backfilled with stone unless specific written approval to return excavated material is sought and received from the Local Authorities Engineer.
 - All easements to adoptable drains shall be free of all services.
 - Installation of structured wall plastic pipes must be carried out by a contractor who is accredited to the British Plastics Federation - Plastic Pipe Group. A certificate confirming the contractors accreditation must be supplied to DCWW. Individual pipe lengths must not exceed 3m.
 - When in a highway the outside of the sewer should be at least 1m from the kerb line. The outside of manhole (to include the 150mm concrete surround) should be at least 0.5m from the kerb line.
 - Pipe saddle connections are not permitted. Connections should be made either directly to a manhole chamber or via a pre-formed pipe junction.
 - All pipework beneath carriageways and vehicular circulation areas and within 1.0m of such areas shall, where cover to the pipes is less than 1.2m, receive a full concrete bed and surround.
 - Full concrete surround is required at all pipe crossing locations within the adoptable highway.
 - The length of pipework between manholes to include for any short length pipes as necessary to achieve the configuration of rocker pipes and standard short length pipes at fixed manhole positions.
 - All pipework built into manholes to be either standard short lengths or cut lengths as appropriate.
 - Rocker pipes to be a maximum of 600mm long.

Note - Inspection Chambers.

2500 Inspection chamber 0.45m - 0.6m deep. Sewers For Adoption 7, Type 4 (Flexible material).

3150 Inspection chamber 0.6m - 0.9m deep. Sewers For Adoption 7, Type 4 (Flexible material).

4500 Inspection chamber 0.6m - 0.9m deep. Sewers For Adoption 7, Type 3 (Flexible material).


NB. Inspection chambers greater than 1m deep to be Sewers For Adoption 7, Type 3 (Flexible material). 4500 with 350mm access restriction which prevents man-entry (e.g. Osmadrain universal inspection chamber with 6031 cover and frame). Alternatively a standard manhole construction can be used.

NOTE

The line and level of all existing drainage and services in the area of the proposed works are to be confirmed on site and reported to the Engineer for checking prior to commencement of any drainage works on site.

SURFACE WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH (m) to Invert to Soffit	SFA7 Ref	TYPE Material	SIZE (mm)	COVER (mm)	REMARKS	PLAN
Ex. SW0	9.150	7.920 (Est)	Ex. Ex.	Ex. Ex.	Ex. Ex.	Ex. Ex.	Ex. Ex.	Benching modified to suit new 2250 outlet pipe. Invert level to be checked and confirmed on site.	Ex. 2250
Ex. SW1	9.045	6.585/6.210 (Est)	2.835	2.235	Type 2	PC	15000	D400 675 x 675	1500
SW2	9.050	6.675	2.375	2.15	Type 2	PC	12000	D400 675 x 675	1200
SW3	9.141	6.785/6.735	2.405	1.581	FCC	PC	24000	D400 675 x 675	1050
SW4	9.475	6.975	2.5	1.675	Type 2	PC	18000	D400 675 x 675	1100
SW5	9.150	7.100/7.025 (Est)	2.125	1.825	Type 2	PC	12000	D400 675 x 675	1200

Rev.	Description	Drawn	Date
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CLIENT			
POBL GROUP			
PROJECT			
PROPOSED RESIDENTIAL DEVELOPMENT KIRBY DANIEL COURT NEWPORT			
DRAWING			
PROPOSED DRAINAGE LAYOUT			
Drawn	Checked	Date	Scale
S.A.M.	P.B.	Nov.18	1:200
Drawing Size	Job No.	Drawing No.	Rev.
A1	16230	09	-
DRAWING STATUS: P = PRELIMINARY T = TENDER C = CONSTRUCTION			
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