

GENERAL NOTES

- The location, size, depth and identification of existing services that may be shown or referred to in this drawing have been assessed from non-invasive observations, record drawings or files. The contractor shall verify the location and depth of all services by means of a utility survey prior to commencing work to avoid damage to any services and that the assessments are accurate, any discrepancies shall be notified to the client prior to work commencing.
- Under no circumstances shall this drawing be used for construction or the ordering of materials.
- Do not scale. All dimensions and levels to be site confirmed.
- This drawing shall be read in conjunction with all relevant architectural, structural, mechanical, electrical, plumbing, civil, and other drawings and specifications, together with all relevant standards.
- Contractor: This drawing must not be copied, amended nor reproduced without the prior written agreement of the client.
- All drawings, specifications and recommendations made by the client are subject to Local Authority and other relevant Statutory Authority approval. Any work or services made in accordance with the drawings prior to these approvals is considered void and the contractor shall hold no responsibility for resulting overruns or costs.

KEY

- Site Boundary
- Existing Foul Drainage
- Proposed Surface Water Drainage
- Proposed Foul Drainage
- Main Foul Sewer Manhole - Type 2
- Main Foul Sewer Manhole - Type 3
- Main Surface Water Manhole - Type 2
- Main Surface Water Manhole - Type 3
- Road Gully
- Sever of Fall
- Street Nameplate
- Adaptable Lighting Column
- Adaptable 'Highway' Lamp Post

GENERAL NOTES

1. ALL ADAPTABLE HIGHWAY CONSTRUCTION WORKS SHALL BE CARRIED OUT TO THE STANDARD LAID DOWN IN THE EAST COUNTY COUNCIL SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION.
2. ALL ADAPTABLE SEWERS AND SHALL BE CONSTRUCTED TO THE STANDARDS LAID DOWN IN 'SEWERS FOR ADOPTION' 2018 EDITION AND SOUTHERN WATER SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION.
3. BEFORE CONNECTIONS ARE MADE TO EXISTING DRAINAGE, ITS LEVEL IS TO BE CHECKED AND COMPARED AGAINST DATA SHOWN IN THIS DRAWING AND THE CONSENT DOCUMENTS OF ANY SIGNIFICANT DIFFERENCE. NO CONNECTIONS ARE TO BE MADE TO THE EXISTING PUBLIC SEWERS PRIOR TO A SIGN AGREEMENT WITH THE SOUTHERN WATER.
4. ALL SEWERS WITH LESS THAN 1.2m OF COVER WHEN LAID BENEATH THE ROADS, OR 0.5m OF COVER IN OTHER AREAS, SHALL BE PROTECTED WITH CONCRETE IN ACCORDANCE WITH EITHER OF THE DETAILS SHOWN IN THE STANDARD DRAWING PROVIDED (FOR RESIDUAL) THE LOCATIONS, REFER TO SEWER SECTIONS.
5. THE MINIMUM SIZE OF PIPE CONNECTING GULLIES TO THE DRAINAGE SYSTEM SHALL BE 150mm DIA. LAID AT A MINIMUM GRADIENT OF 1 IN 80.
6. IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF THE DRAINAGE SYSTEM, ALL ROAD AND YARD GULLIES ARE TO BE 'TRAPFREE'.
7. ALL NON ADAPTABLE LATERALS BENEATH THE HIGHWAY SHALL BE BACKFILLED WITH LEAN MIX CONCRETE UNLESS OTHERWISE AGREED WITH THE HIGHWAYS ENGINEER.
8. THE DESIGN IS SUCH THAT WATER FROM PRIVATE AREAS DOES NOT SHED TO ADJACENT AREAS AND VICES VERSA.
9. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
10. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
11. IT IS THE SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.

PRELIMINARY

Client: **REDROW HOMES**

Project: **PHASE 1a, HOPLANDS FARM HERSDEN, KENT**

Title: **ROAD & MAIN SEWER LAYOUT**

Date: **FEBRUARY 2018** Scale @ A3: **1:500**

Base Layout Ref: CAD File Ref: **2665** Project Ref: **7178**

Client's site: **2665** Project Ref: **7178**

Drawn by: **gta** Checked by: **gta**

Project: **2665-21-06-506** Rev: **K**

ADAPTABLE MANHOLE SCHEDULE

REF	E	N	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	COVER TYPE
LATERAL FOUL WATER CHAMBERS							
FWMH1A	619945.114	161702.142	34.885	33.940	0.945	450mm ² Plastic Type 3 (B.16)	A15
FWMH1B	619975.309	161720.272	35.000	33.860	1.140	450mm ² Plastic Type 3 (B.16)	A15
FWMH1C	619990.944	161678.044	35.075	33.330	1.745	450mm ² Plastic Type 3 (B.16)	A15
FWMH1D	619971.142	161652.423	34.970	33.770	1.200	450mm ² Plastic Type 3 (B.16)	A15
FWMH1E	619990.485	161662.023	34.965	33.485	1.480	450mm ² Plastic Type 3 (B.16)	A15
FWMH1F	620002.028	161690.751	35.100	33.772	1.328	450mm ² Plastic Type 3 (B.16)	A15
FWMH1G	620026.565	161680.867	35.195	33.905	1.290	450mm ² Plastic Type 3 (B.16)	A15
FWMH1H	619994.188	161613.599	35.095	33.795	1.300	450mm ² Plastic Type 3 (B.16)	B125
FWMH1I	619994.188	161613.599	35.095	33.455	1.640	450mm ² PCC Type 3 (B.18)	B125
FWMH1J	620005.580	161620.807	35.095	33.455	1.640	450mm ² PCC Type 3 (B.18)	B125
FWMH1K	620010.966	161603.798	34.500	33.500	1.000	450mm ² Plastic Type 3 (B.16)	A15
FWMH1L	620087.956	161641.439	35.900	33.136	2.764	450mm ² Plastic Type 3 (B.16)	B125
FWMH1M	620094.384	161613.506	34.205	32.833	1.372	450mm ² Plastic Type 3 (B.16)	A15
FWMH1N	620040.377	161608.778	34.450	33.385	1.065	450mm ² Plastic Type 3 (B.16)	A15
FWMH1O	620034.006	161569.594	34.650	32.985	1.665	450mm ² Plastic Type 3 (B.16)	A15
FWMH1P	620056.384	161711.640	34.910	34.420	0.490	450mm ² Plastic Type 3 (B.16)	A15
FWMH1Q	620067.802	161709.416	34.845	33.530	1.315	450mm ² Plastic Type 3 (B.16)	A15
FWMH1R	620011.320	161693.061	34.720	33.285	1.435	450mm ² Plastic Type 3 (B.16)	A15
FWMH1S	620020.930	161661.186	33.125	31.020	2.095	450mm ² Plastic Type 3 (B.16)	A15
FWMH1T	620112.554	161659.865	34.170	32.240	1.930	450mm ² Plastic Type 3 (B.16)	A15
FWMH1U	620192.449	161648.219	33.325	33.310	0.015	450mm ² PCC Type 3 (B.18)	A15
FWMH1V	620206.080	161661.884	33.213	30.260	0.953	450mm ² PCC Type 3 (B.18)	D400

ADAPTABLE MANHOLE SCHEDULE

REF	E	N	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	COVER TYPE
MAIN FOUL WATER MANHOLES							
FWMH2A	619969.643	161716.870	35.060	33.582	1.478	450mm ² PCC Type 3 (B.18)	D400
FWMH2B	619973.673	161710.158	35.140	33.484	1.656	450mm ² PCC Type 3 (B.18)	D400
FWMH2C	619976.746	161675.535	34.960	33.054	1.906	450mm ² PCC Type 3 (B.18)	D400
FWMH2D	619980.975	161669.288	34.900	32.955	1.945	450mm ² PCC Type 3 (B.18)	D400
FWMH2E	619991.628	161670.219	34.745	32.174	2.571	1200mm ² PCC Type 2	D400
FWMH2F	620037.784	161697.621	34.800	33.500	1.300	450mm ² PCC Type 3 (B.18)	D400
FWMH2G	620035.445	161653.050	34.605	33.250	1.355	450mm ² PCC Type 3 (B.18)	D400
FWMH2H	620035.519	161674.052	34.800	31.880	3.010	1200mm ² PCC Type 2	D400
FWMH2I	620041.242	161673.608	35.000	31.841	3.159	1200mm ² PCC Type 1	B125

ADAPTABLE MANHOLE SCHEDULE

REF	E	N	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	COVER TYPE
MAIN SURFACE WATER MANHOLES							
SWMH1A	619941.645	161705.859	34.845	33.070	1.775	1200mm ² PCC Type 2	D400
SWMH1B	619957.927	161719.580	35.130	32.944	2.186	1200mm ² PCC Type 2	D400
SWMH1C	619975.309	161726.294	34.940	33.440	1.500	1200mm ² PCC Type 2	D400
SWMH1D	619991.645	161721.413	35.000	32.876	2.124	1200mm ² PCC Type 2	D400
SWMH1E	619994.994	161710.174	35.100	32.726	2.374	1200mm ² PCC Type 2	D400
SWMH1F	619979.436	161677.026	34.675	32.548	2.127	1200mm ² PCC Type 2	D400
SWMH1G	619988.475	161668.689	34.630	32.470	2.160	1200mm ² PCC Type 2	D400
SWMH1H	620029.588	161720.408	34.670	32.895	1.775	1200mm ² PCC Type 2	D400
SWMH1I	620045.549	161699.130	34.615	32.730	2.077	1200mm ² PCC Type 2	D400
SWMH1J	620035.300	161668.688	34.880	32.568	2.312	1200mm ² PCC Type 2	D400
SWMH1K	620023.352	161671.647	34.920	32.331	2.589	1200mm ² PCC Type 2	D400
SWMH1L	620027.720	161648.933	34.645	32.340	2.305	1200mm ² PCC Type 2	D400
SWMH1M	620072.020	161645.594	34.205	32.224	1.981	1200mm ² PCC Type 2	D400
SWMH1N	620036.075	161635.862	34.460	31.938	2.522	1350mm ² PCC Type 2	D400
SWMH1O	620097.822	161622.118	34.720	31.840	2.888	1200mm ² PCC Type 2	D400
SWMH1P	620029.043	161624.201	34.500	32.753	1.747	450mm ² PCC Type 3 (B.18)	D400
SWMH1Q	620039.153	161628.206	34.350	31.912	2.438	1350mm ² PCC Type 2	D400
SWMH1R	620049.186	161629.505	33.900	31.808	2.167	1350mm ² PCC Type 2	D400
SWMH1S	620056.904	161685.499	33.500	31.768	1.732	1350mm ² PCC Type 2	D400
SWMH1T	620042.964	161666.763	33.600	32.200	1.400	450mm ² PCC Type 3 (B.18)	D400
SWMH1U	620052.677	161678.234	33.365	31.146	2.219	1350mm ² PCC Type 2	D400
SWMH1V	620066.120	161658.077	33.100	31.175	1.925	1350mm ² PCC Type 2	D400
SWMH1W	620068.868	161654.995	31.995	30.070	1.925	1350mm ² PCC Type 2	D400
SWMH1X	620069.186	161654.995	31.995	30.017	1.978	1350mm ² PCC Type 2	D400
SWMH1Y	620022.050	161650.925	32.000	30.690	1.305	1350mm ² PCC Type 3 (B.18)	B125
SWMH1Z	620099.318	161647.748	31.510	29.925	1.585	1350mm ² PCC Type 3 (B.18)	B125

ADAPTABLE MANHOLE SCHEDULE

REF	E	N	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	COVER TYPE
PHASE 1a NETWORK TO EXISTING FWM 1401							
FWMH3A	620014.873	161619.538	34.700	33.285	1.415	450mm ² PCC Type 3 (B.18)	D400
FWMH3B	620022.250	161626.267	34.470	33.052	1.418	450mm ² PCC Type 3 (B.18)	D400
FWMH3C	620011.446	161672.021	34.210	32.460	1.750	450mm ² PCC Type 3 (B.18)	D400
FWMH3D	620050.495	161648.585	33.960	32.560	1.400	450mm ² PCC Type 3 (B.18)	D400
FWMH3E	620058.430	161587.602	33.485	31.220	2.265	1200mm ² PCC Type 2	D400
FWMH3F	620059.341	161582.005	33.300	31.182	2.118	1200mm ² PCC Type 2	D400
FWMH3G	620047.082	161573.076	33.565	31.080	2.485	450mm ² PCC Type 3 (B.18)	A15
FWMH3H	620032.175	161563.285	32.570	31.370	1.200	450mm ² PCC Type 3 (B.18)	A15
FWMH3I	620036.066	161559.937	32.070	30.610	1.460	450mm ² PCC Type 3 (B.18)	A15
FWMH3J	620124.769	161567.360	32.290	30.618	1.677	1200mm ² PCC Type 2	B125
FWMH3K	620097.674	161490.174	28.250	26.860	1.390	450mm ² PCC Type 3 (B.18)	A15
FWMH3L	620106.057	161607.703	33.345	32.315	1.030	450mm ² PCC Type 3 (B.18)	D400

ADAPTABLE MANHOLE SCHEDULE

REF	E	N	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	COVER TYPE
PHASE 1a NETWORK TO EXISTING FWM 1501							
FWMH4A	620005.580	161751.896	34.620	33.370	1.250	450mm ² Plastic Type 3 (B.16)	A15
FWMH4B	620004.437	161761.933	34.400	33.235	1.165	450mm ² Plastic Type 3 (B.16)	A15
FWMH4C	620071.618	161776.375	34.550	32.955	1.595	450mm ² Plastic Type 3 (B.16)	A15
FWMH4D	620099.775	161778.948	34.525	32.725	1.800	450mm ² Plastic Type 3 (B.16)	A15
FWMH4E	620111.446	161772.381	34.210	32.440	1.770	450mm ² Plastic Type 3 (B.16)	D400
FWMH4F	620146.744	161786.231	34.150	32.145	2.005	450mm ² Plastic Type 3 (B.16)	A15
FWMH4G	620135.822	161774.074	34.150	32.940	1.210	450mm ² Plastic Type 3 (B.16)	A15
FWMH4H	620159.584	161776.000	33.950	32.850	1.100	450mm ² Plastic Type 3 (B.16)	A15
FWMH4I	620123.934	161771.657	34.005	32.778	1.227	450mm ² PCC Type 3 (B.18)	D400
FWMH4J	620118.086	161766.405	34.000	31.980	2.020	1200mm ² PCC Type 2	D400
FWMH4K	620103.309	161746.495	34.400	31.816	2.584	1200mm ² PCC Type 2	D400
FWMH4L	620095.902	161730.118	34.630	31.696	2.934	1200mm ² PCC Type 2	D400
FWMH4M	620083.246	161704.407	34.730	31.310	3.420	450mm ² PCC Type 3 (B.18)	D400
FWMH4N	620099.052	161690.083	34.240	31.340	2.900	1200mm ² PCC Type 2	D400
FWMH4O	620133.416	161633.238	33.840	31.290	2.550	450mm ² PCC Type 3 (B.18)	D400
FWMH4P	620141.031	161626.850	33.505	31.255	2.250	450mm ² PCC Type 3 (B.18)	D400
FWMH4Q	620154.173	161621.383	33.260	30.283	2.977	1200mm ² PCC Type 2	D400