

NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.

2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.

3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.

4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

5. All pipes, bends and junctions shall be vitrified clay to BS EN 285-1, with flexible joints and kitemark certified. Alternatively all pipes and fittings can be UPVC conforming to BS EN 1401-1 and shall be laid in accordance with the manufacturers specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.

6. All Adoptable sewers shall be in strict accordance with the current edition of Sewers For Adoption. Unless otherwise stated, adoptable sewers shall be 150mm diameter and shall be laid in a class B bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.

7. All private building drainage shall be constructed in strict accordance with BS EN 752:1996. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.

8. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surmounted in 150mm thick class GEN 3 concrete.

9. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.

10. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 38mm for pipes over 450mm nominal diameter.

11. All syps shall have rodding access plates fitted at their bases (ground floor level).

12. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.

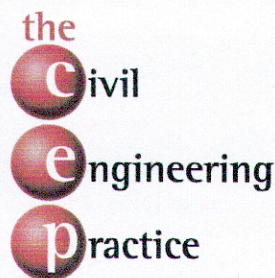
C | 06.08.14 | A | J | D | Drainage updated to suit 'Value Engineering' comments
B | 22.07.14 | A | J | D | Highway manhole and soakaway schedule updated to suit new design, private trench soakaway size updated
A | 17.06.14 | A | J | D | Drainage updated

REV	DATE	INT	DESCRIPTION	CHK
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Issue Status

TENDER

11 Tungsten Building
George Street
Fishergate
Sussex
BN41 1RA
Tel: 01273 424424
Fax: 01273 424425
email: design@civil.co.uk



CLIENT
Barratt David Wilson Southampton
PROJECT
Swanbourne Park
Angmering

TITLE
Manhole Schedule

DESIGN	DATE	PROJECT NO.
A Davies	June 2014	22067
DRAWN	CHECKED	DATE
A French		
SCALE	NTS	REV
		226 C

FOUL WATER MANHOLE SCHEDULE

MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	MANHOLE TYPE	MANHOLE SIZE	SEWERS FOR ADOPTION FIG. REF.	COVER TYPE	EASTINGS	NORTHINGS
F01	13.850	10.265	3.5850	TYPE 1A	1200	FIG B.8	D400	507665.437	103894.656
F02	13.659	10.327	3.3320	TYPE 1A	1200	FIG B.8	D400	507674.767	103894.854
F03	13.745	10.384	3.3610	TYPE 1A	1200	FIG B.8	D400	507674.492	103903.710
F04	13.952	10.519	3.4330	TYPE 1A	1200	FIG B.8	D400	507667.660	103922.477
F05	14.367	10.826	3.5610	TYPE 1A	1200	FIG B.8	D400	507635.924	103955.869
F06	14.791	11.080	3.7110	TYPE 1A	1200	FIG B.8	D400	507627.691	103993.071
F07	14.989	11.203	3.7860	TYPE 1A	1200	FIG B.8	D400	507619.985	104009.943
F08	15.349	11.436	3.9130	TYPE 1A	1200	FIG B.8	D400	507597.161	104036.511
F09	15.458	11.534	3.9240	TYPE 1A	1200	FIG B.8	D400	507583.348	104041.574
F10	15.256	11.853	3.4030	TYPE 1A	1200	FIG B.8	D400	507535.402	104042.107
F11	15.275	12.046	3.2290	TYPE 1A	1200	FIG B.8	D400	507508.412	104052.357
F12	15.226	12.367	2.8390	TYPE 2	1200	FIG B.12	D400	507472.686	104088.940
F13	14.185	12.885	1.3000	TYPE 2	1200	FIG B.12	D400	507436.856	104089.471
F14	13.598	11.879	1.7190	TYPE 2	1200	FIG B.12	D400	507674.894	103888.786
F15	14.068	12.194	1.8740	TYPE 2	1200	FIG B.12	D400	507684.234	103937.947
F16	13.917	12.617	1.3000	TYPE 2	1200	FIG B.12	D400	507745.267	103937.850
F17	14.758	12.056	2.7020	TYPE 2	1200	FIG B.12	D400	507646.745	103988.225
F18	14.775	12.366	2.4090	TYPE 2	1200	FIG B.12	D400	507693.160	104000.379
F19	14.697	12.515	2.1820	TYPE 2	1200	FIG B.12	D400	507715.326	104003.521
F20	14.805	12.595	2.2100	TYPE 2	1200	FIG B.12	D400	507721.650	104013.772
F21	15.238	12.892	2.3460	TYPE 2	1200	FIG B.12	D400	507705.319	104055.487
F22	15.426	13.189	2.2370	TYPE 2	1200	FIG B.12	D400	507700.117	104099.722
F23	14.949	13.508	1.4410	TYPE 2	1200	FIG B.12	D400	507698.069	104147.438
F24	14.878	13.578	1.3000	TYPE 2	1200	FIG B.12	D400	507692.629	104156.453
F25	15.352	14.009	1.3430	TYPE 2	1200	FIG B.12	D400	507665.721	104155.657
F26	16.198	14.898	1.3000	TYPE 2	1200	FIG B.12	D400	507598.625	104153.671
F27	15.475	13.553	1.9220	TYPE 2	1200	FIG B.12	D400	507608.843	104047.839
F28	15.545	13.644	1.9010	TYPE 2	1200	FIG B.12	D400	507604.190	104060.622
F29	15.836	13.843	1.9930	TYPE 2	1200	FIG B.12	D400	507601.548	104090.410
F30	15.986	14.127	1.8590	TYPE 2	1200	FIG B.12	D400	507592.185	104106.614
F31	15.788	14.408	1.3800	TYPE 2	1200	FIG B.12	D400	507591.723	104129.081
F32	15.828	14.528	1.3000	TYPE 2	1200	FIG B.12	D400	507586.351	104137.068
F33	15.306	13.956	1.3500	TYPE 2	1200	FIG B.12	D400	507664.052	104050.424
F34	15.607	14.195	1.4120	TYPE 2	1200	FIG B.12	D400	507618.946	104101.019
F35	15.732	14.382	1.3500	TYPE 2	1200	FIG B.12	D400	507647.042	104102.397
F36	14.972	12.824	2.1480	TYPE 2	1200	FIG B.12	D400	507525.132	104016.781
F37	14.954	13.572	1.3820	TYPE 2	1200	FIG B.12	D400	507465.353	104016.958
F38	14.990	13.690	1.3000	TYPE 2	1200	FIG B.12	D400	507465.258	104026.351
F39	15.640	13.663	1.9770	TYPE 1A	1200	FIG B.8	D400	507501.135	104125.948
F40	15.863	14.023	1.8600	TYPE 1A	1200	FIG B.8	D400	507520.302	104141.725
F41	15.773	14.311	1.4620	TYPE 2	1200	FIG B.12	D400	507542.726	104147.025
F42	15.900	14.600	1.3000	TYPE 2	1200	FIG B.12	D400	507565.803	104148.673

HIGHWAY MANHOLE SCHEDULE

MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	MANHOLE TYPE	MANHOLE SIZE	SEWERS FOR ADOPTION FIG. REF.	COVER TYPE	EASTINGS	NORTHINGS
HW01	13.700	12.400	1.3000	TYPE 2	1200	FIG B.12	D400	507427.112	104088.477
HW02	14.973	13.673	1.3000	TYPE 2	1200	FIG B.12	D400	507459.074	104088.004
HW03	15.815	14.5150	1.3000	TYPE 2	1200	FIG B.12	D400	507642.147	104156.013
HW04	15.688	14.3880	1.3000	TYPE 2	1200	FIG B.12	D400	507659.277	104102.330
HW05	15.043	13.7430	1.3000	TYPE 2	1200	FIG B.12	D400	507699.880	104135.509
HW06	14.402	13.1020	1.3000	TYPE 2	1200	FIG B.12	D400	507637.258	103955.594
HW07	13.879	12.5790	1.3000	TYPE 2	1200	FIG B.12	D400	507737.506	103936.333
HW08	15.268	13.9680	1.3000	TYPE 2	1200	FIG B.12	D400	507674.891	104051.451

HIGHWAY PRECAST CONCRETE RING SOAKAWAY SCHEDULE

SOAKAWAY REFERENCE	TOTAL No.	DEPTH	MAX DEPTH TO LOWEST INVERT	DIAMETER	COVER TYPE
HWSA1	1	3.4m	2m	1200	D400
HWSA2	7	3.4m	2m	1350	D400
HWSA3	2	3.4m	2m	1500	D400
HWSA4	1	3.4m	2m	1800	D400
HWSA5	6	3.4m	2m	2100	D400

FOUL WATER INSPECTION CHAMBER SCHEDULE

REF.	CHAMBER TYPE	TOTAL No.	DEPTH TO INVERT	SIZE (mm)	COVER TYPE
F3	TYPE 3	41	<650mm	450	B125
F3	TYPE 3	13	<1300mm	450	B125/D400
F4	TYPE 4	192	<650mm	180	B125

SURFACE WATER INSPECTION CHAMBER SCHEDULE

REF.	CHAMBER TYPE	TOTAL No.	DEPTH TO INVERT	SIZE (mm)	COVER TYPE
S3	TYPE 3	8	<650mm	450	B125
S4	TYPE 4	182	<650mm	180	B125

PRIVATE PRECAST CONCRETE RING SOAKAWAY SCHEDULE

REF.	MAX. DRAINED AREA (m sq)	DEPTH	MAX DEPTH TO LOWEST INVERT	Diameter	COVER TYPE	EASTINGS	NORTHINGS
PSA01	273	3.300	1.000	900	B125	507461.861	104109.803
PSA02	321	3.200	1.000	900	B125	507465.995	104121.404
PSA03	435	2.761	1.000	1200	B125	507485.153	104149.444
PSA04	463	2.271	1.000	1500	B125	507519.384	104172.263
PSA05	384	2.230	1.000	1350	B125	507571.353	104175.865
PSA06	244	2.500	1.000	900	B125	507542.922	104137.113
PSA07	281	3.000	1.000	900	B125	507530.705	104117.233
PSA08	553	3.327	1.000	1200	B125	507509.211	104096.212
PSA09	441	3.229	1.000	1050	B125	507517.974	104083.043
PSA10	120	3.100	1.000	900	B125	507543.888	104068.821
PSA11	365	3.278	1.000	900	B125	507529.160	104095.917
PSA12	346	3.144	1.000	900	B125	507453.940	104053.026
PSA13	378	3.370	1.000	900	B125	507469.926	104054.542
PSA14	267	2.584	1.000	900	B125	507505.320	104028.491
PSA15	219	2.800	1.000	900	B125	507474.562	104039.713
PSA16	167	2.800	1.000	900	B125	507457.833	104047.091
PSA17	605	3.200	1.000	1350	B125	507625.246	104177.245
PSA18	590	4.089	1.000	1050	B125	507665.140	104177.499
PSA19	473	3.500	1.000	1050	B125	507621.231	104131.178
PSA20	249	3.400	1.000	900	B125	507641.931	104132.962
PSA21	428	3.500	1.000	1050	B125	507663.880	104131.690
PSA22	278	3.100	1.000	900	B125	507680.310	104109.533
PSA23	314	3.300	1.000	900	B125	507655.134	104124.548
PSA24	266	3.500	1.000	900	B125	507633.658	104122.345
PSA25	271	3.400	1.000	900	B125	507619.867	104118.847
PSA26	165	2.300	1.000	900	B125	507636.258	104079.888
PSA27	256	2.200	1.000	1050	B125	507655.201	104080.787
PSA28	503	2.411	1.000	1500	B125	507679.121	104075.714
PSA29	290	2.500	1.000	1050	B125	507664.147	104073.386
PSA30	222	2.400	1.000	900	B125	507643.504	104072.872
PSA31	398	2.583	1.000	1200	B125	507629.830	104072.399
PSA32	355	2.500	1.000	1200	B125	507636.851	104027.840
PSA33	206	2.800	1.000	900	B125	507650.310	104029.334
PSA34	214	2.700	1.000	900	B125	507672.508	104029.654
PSA35	165	2.600	1.000	900	B125	507692.964	104030.605
PSA36	283	2.317	1.000	1050	B125	507696.413	104022.863
PSA37	442	2.466	1.000	1350	B125	507690.893	104024.404
PSA38	317	2.513	1.000	1050	B125	507646.549	104022.159
PSA39	278	2.007	1.000	1200	B125	507701.580	103887.820

PRIVATE PRECAST CONCRETE RING SOAKAWAY SCHEDULE

REF.	MAX. DRAINED AREA (m sq)	DEPTH (From Ground Level)	TRENCH DEPTH	SIZE
PSA51	155	2.300	1.100	4.10 x 1.20
PSA52	274	2.300	1.100	6.80 x 1.20
PSA53	100	2.300	1.100	2.14 x 1.20
PSA54	186	2.300	1.100	4.45 x 1.20
PSA55	178	2.300	1.100	4.23 x 1.20
PSA56	373	2.300	1.100	9.46 x 1.20
PSA57	101	2.300	1.100	2.16 x 1.2
PSA58	317	2.300	1.100	7.96 x 1.20
PSA59	143	2.300	1.100	3.29 x 1.20
PSA60	143	2.300	1.100	3.29 x 1.20
PSA61	200	2.300	1.100	4.82 x 1.20
PSA12	200	2.300	1.100	4.82 x 1.20
PSA63	230	2.300	1.100	5.63 x 1.20
PSA64	230	2.300	1.100	5.63 x 1.20
PSA65	215	2.300	1.100	3.64 x 2.00
PSA66	273	2.300	1.100	6.78 x 1.20