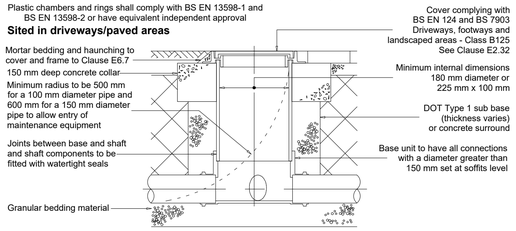
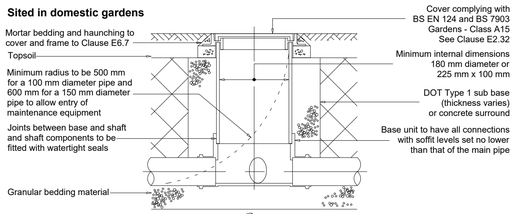
FIGURE B.21
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4 (Flexible material detail)
Maximum depth from cover level to soffit of pipe 2 m, non-entry

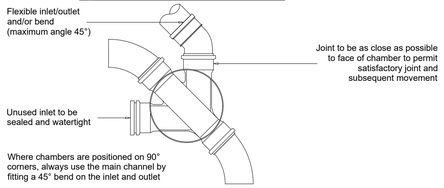
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Sited in driveways/paved areas



Sited in domestic gardens

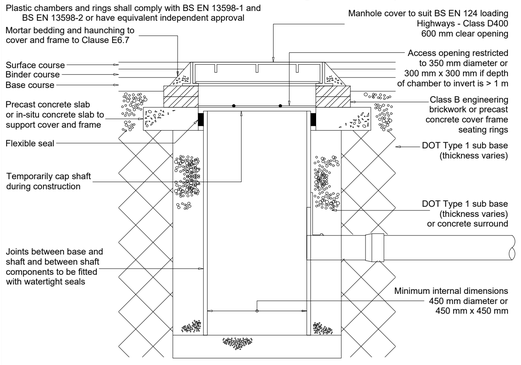




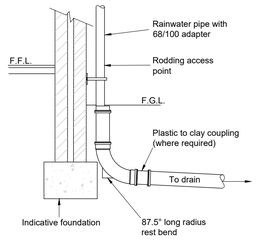
Note: Where the access chamber is in the highway the Highway Authority can have specific requirements

Not to scale

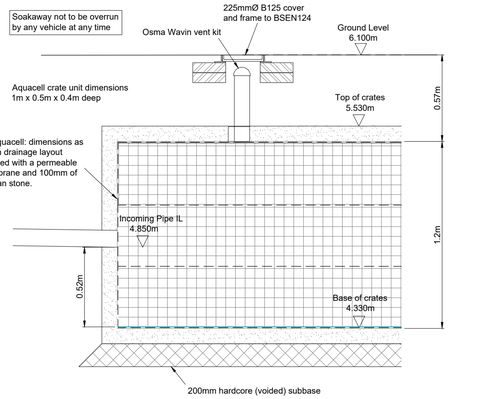
Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry



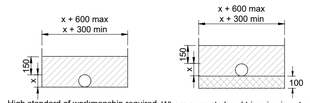
CATCHPIT CHAMBER
500mm SUMP
(Scale 1:20)



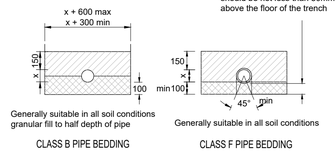
TYPICAL RAINWATER PIPE DETAIL
(Scale 1:25)



AQUACALL CRATE SOAKAWAY DETAIL
(Scale 1:20)



PIPE BORE	BEDDING CLASS	Fields and gardens MIN	Fields and gardens MAX	Light traffic roads MIN	Light traffic roads MAX	Heavy traffic roads MIN	Heavy traffic roads MAX
100mm	D or N	0.4	4.2	0.7	4.1	0.7	3.7
	F	0.3	5.8	0.5	5.8	0.5	5.5
	B	0.3	7.4	0.4	7.4	0.4	7.2
150mm	D or N	0.6	2.7	1.1	2.5	--	--
	F	0.6	3.9	0.7	3.8	0.7	3.3.
	B	0.6	5.0	0.6	5.0	0.6	4.6
225mm	D or N	--	--	--	--	--	--
	F	0.6	2.5	1.2	2.1	--	--
	B	0.6	3.3	0.8	3.2	0.9	2.4

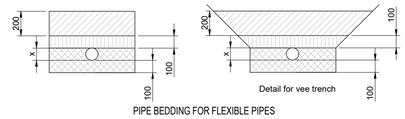


PIPE BEDDING FOR RIGID APPLIES (NON ADOPTIVE DRAINS)

LEGEND:

- Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber frozen material and vegetable matter
- Granular material: should conform to BS 882:1983 table 4 or BS8301:1985 Appendix D. Compaction fraction > 0.3 for class N > 0.2 for class F and B.
- Selected fill or granular fill free from stones larger than 40mm

'x' - Denotes external pipe diameter.



PIPE BEDDING DETAILS
(NON ADOPTABLE DRAINS)
(Not To Scale)

PRIVATE SURFACE WATER MANHOLE SCHEDULE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
SW01	5.540	5.040	0.500	450	A15	4, Figure B.21
SW02	5.880	4.930	0.950	450	A15	4, Figure B.21
SW03 Catchpit	5.920	4.895	1.025	450 (R)	A15	4, Figure B.21

Notes:
(R) = Restricted access opening to 350mm Ø or 300mm x 300mm if depth of chamber to invert is >1m

GENERAL 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.

DRAINAGE NOTES:

1. All adoptable pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified.

2. All Adoptable sewers shall be in strict accordance with the 7th edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S 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.

3. All private building drainage shall be constructed in strict accordance with BS EN 752:2008. 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.

4. 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 surrounded in 150mm thick class GEN 3 concrete.

5. 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.

6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard 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 36mm for pipes over 450mm nominal diameter.

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

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

9. Any discrepancy between the drawing and site should be reported immediately to the Engineer.

10. All manhole and chamber sizes are given as a minimum to meet the 7th edition of Sewers For Adoption

REV	DATE	INT	DESCRIPTION	CHK
A	21.08.20	SAB	Updated incmoing pipe IL to SA	SB

Issue Status: FOR APPROVAL

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CLIENT: Keith Langmead Ltd

PROJECT: South Yard, Wicks Farm, South Yard B

TITLE: Drainage Strategy

DRAWN	DATE	PROJECT NO.
P Reynolds	July 2020	23420
ENGINEER	CHECKED	DRG. No. / REV.
S Burgess	SAB	01 / A
SCALE: As shown @ A1		

ARUN DISTRICT COUNCIL FI3120/DOC