DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the Local Authority, Building Regulations, Design and Construction Guidence (published by Water UK), BS8301 & BSEN.752-1.

2. For location and setting out of building drainage points refer to architects drawings.

3. All pipe runs near buildings to comply with the Building Regulations 2002 part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class gen3 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 gen3 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 GEN3 concrete.

4. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).

5. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a concrete bed and surround.

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 private building drainage shall be constructed in strict accordance with BS EN.752-1. Foul drainage beneath the floor slab shall be laid, shall be laid no flatter than 1:40. Unless otherwise specified below ground building drainage external to the building shall be 100mm diameter and shall be laid at a minimum gradient of (<1/s = 1 in 40/>1/s = 1 in 80) for foul drains and 1 in 80 for surface water drains.

8. All building drains shall be laid in conjunction with 'non adoptive bedding details' (class d, n or b) unless otherwise specified.

9. All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4660, BSEN13598 and BSEN1401 as appropriate and shall be laid in accordance with the manufacturer's specification.

10. All pipes, bends and junction materials for adoptable drainage shall be vitrified clay, extra strength or super strength to BSEN295, with flexible joints and kitemark certified

11. All back inlet gullies to be roddable or connected to inspection chambers.

12. All gully connections other than at manholes to be 'y' junctions.

13. All road gully connections to be 150mm diameter.

14. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.

15. No low point shall be without a method of drainage.

16. All connections to be soffit to soffit unless otherwise noted.

17. All concrete and concrete products to be in accordance with BRE 363 for sulphates.

18. The locations of all building drainage points shall be cross referenced against the architects drawings during setting out.

19. Before connections are made to existing public sewers an application under 106 must be made to relevant sewerage undertaker.

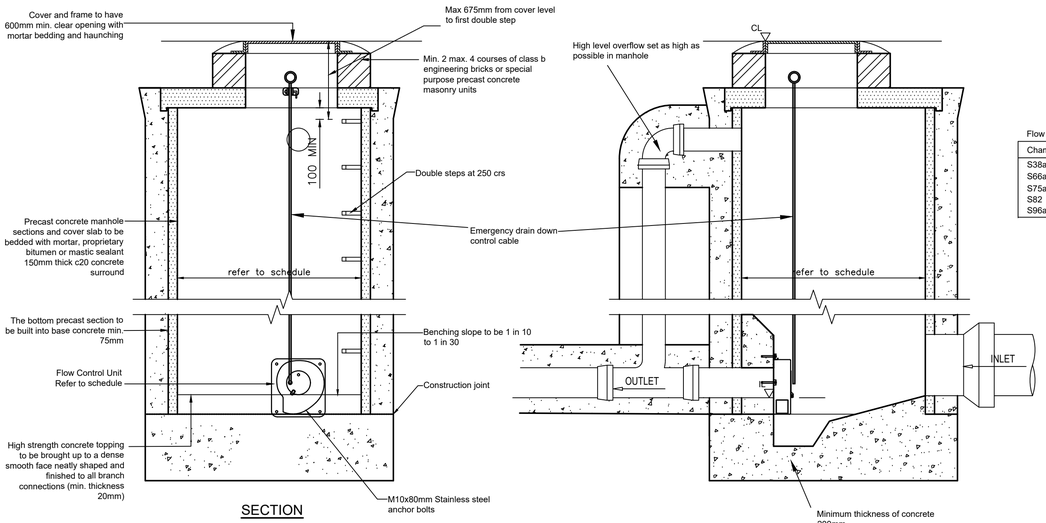
20. The precise depth and location and size of existing pipes, watecourses or manholes where connections or diversion are proposed must be confirmed and reported to the engineer before works commence on site.

21. Existing drains - any existing drains to be abandoned to be decommissioned in view of building regulations by either building out, infilled or sealed.

22. Should ground water be encountered on site during construction BPC shall be informed to determine if additional measures are required.

23. The drainage drainage system shall be fully cleansed on completion of the project using methods that ensure pollution off site does not occur.

22. Any existing land drains severed during construction shall be reinstated.

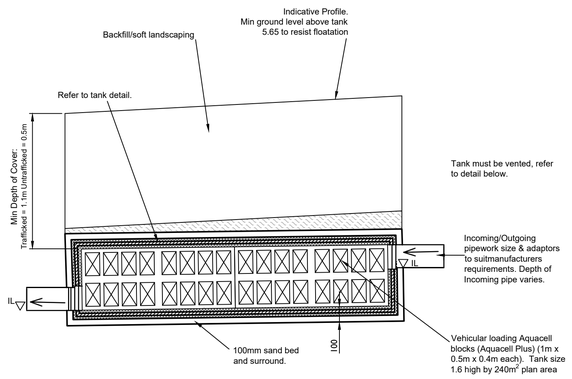


SECTION

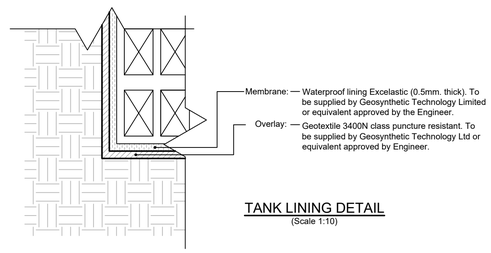
FLOW CONTROL CHAMBER
(Scale 1:20)
The details shown above are indicative only and should not be used as a scaled drawing. Please refer to manufacturers installation.

Flow controls

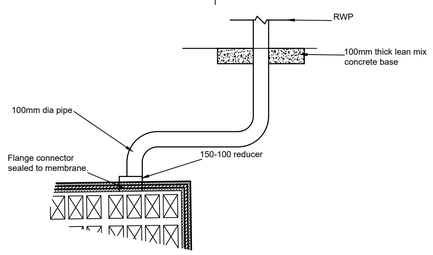
Chamber Ref	Max flow	Design Head	Hydrobrake Ref	Sump size
S38a	4.2l/s	1.4m	CTL-SHE-0091-4200-1400-4200	200x365
S66a	60l/s	0.92m	CTL-SHE-0391-6000-0920-6000	650x475
S75a	18l/s	1.2m	CTL-SHE-0187-1800-1200-1800	390x430
S82	19.8l/s	1.52m	CTL-SHE-0190-1980-1520-1980	400x465
S96a	1.9l/s	1.7m	CTL-SHE-0058-1900-1700-1900	130x285



AQUACELL SURFACE WATER STORAGE TANK
(Scale 1:20)



TANK LINING DETAIL
(Scale 1:10)



AQUACELL TANK VENT
(Scale 1:20)

1:1000 @ A1
1:2000 @ A3
0 10 20 30 40 50 60 70 80 90 100 m

Example Drawing Title @ 1:1000

NOTES

A1

1. This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.

2. Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.

3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.

4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.

5. 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.

6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. Bright Plan Civils logos and company information must be removed from copies if information is re-used.

RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Uncharted buried services. Contractor to use CAT prior to excavating.
2. Working in live carriageway. Contractor to implement traffic management to ensure safety of the workforce and public.
3. Working in live sewers. Contractor to ensure operatives are familiar with the dangers of working in live sewers.
4. Excavations close to existing structures. Contractor to prepare method statement to ensure stability of existing structures.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

Rev.	Amendments	Date
-	Original Issue	18/09/2019

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Drawing Status: FOR APPROVAL

Client: THAKEHAM

Project: BILSHAM ROAD YAPTON

Drawing Title: PRIVATE DRAINAGE DETAILS

Scale	Date	Drawn By	Checked By
NTS	FEB 22		

Drawing No. D1956-15-3

Rev. -

ARUN DISTRICT COUNCIL Y3W22DOC