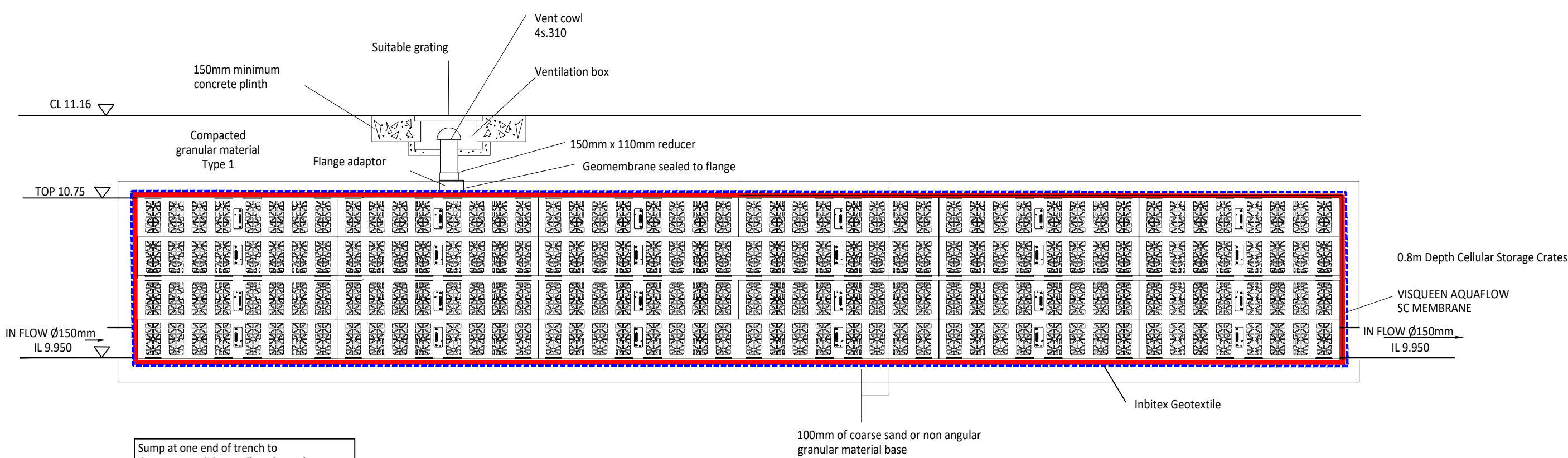
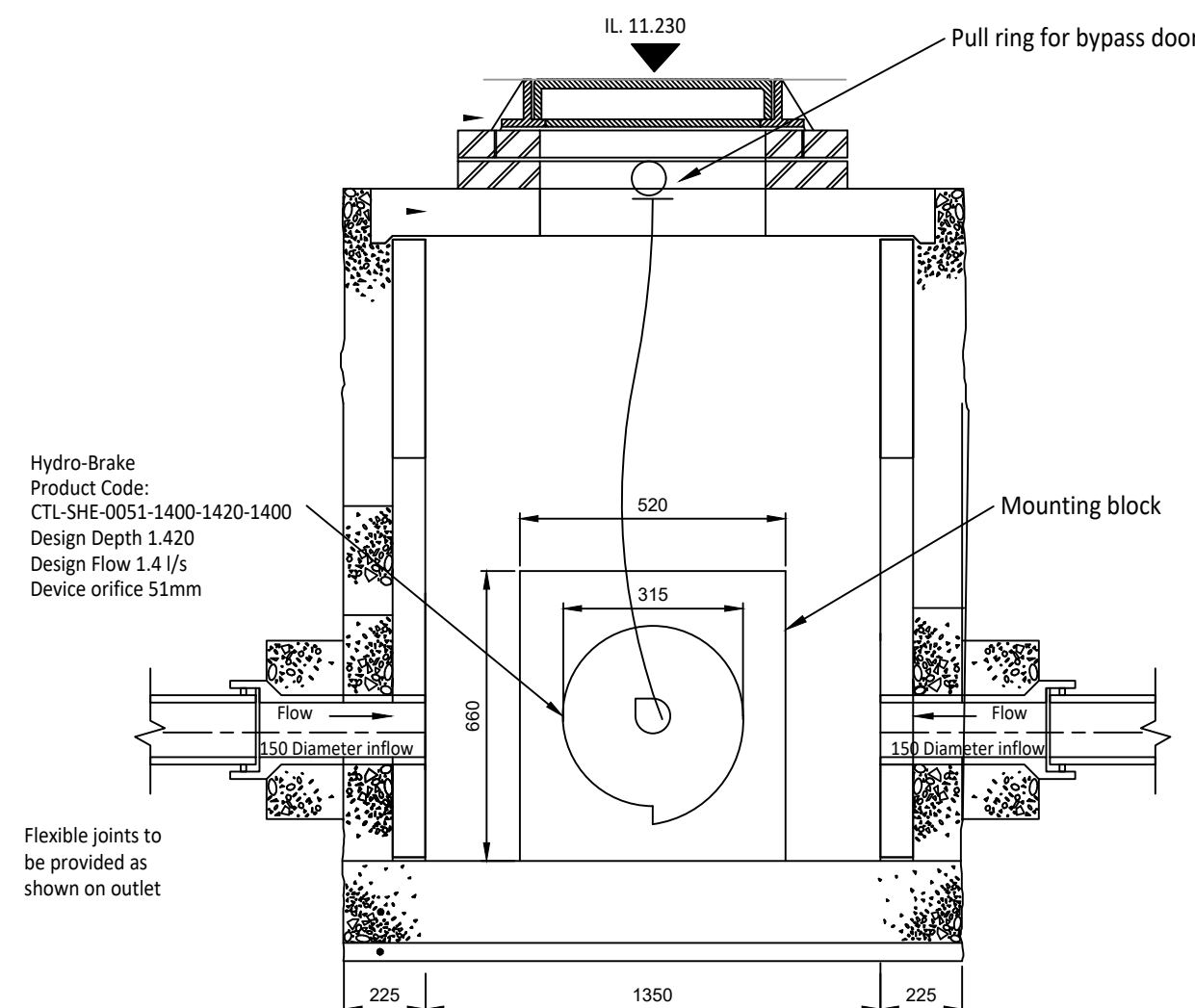
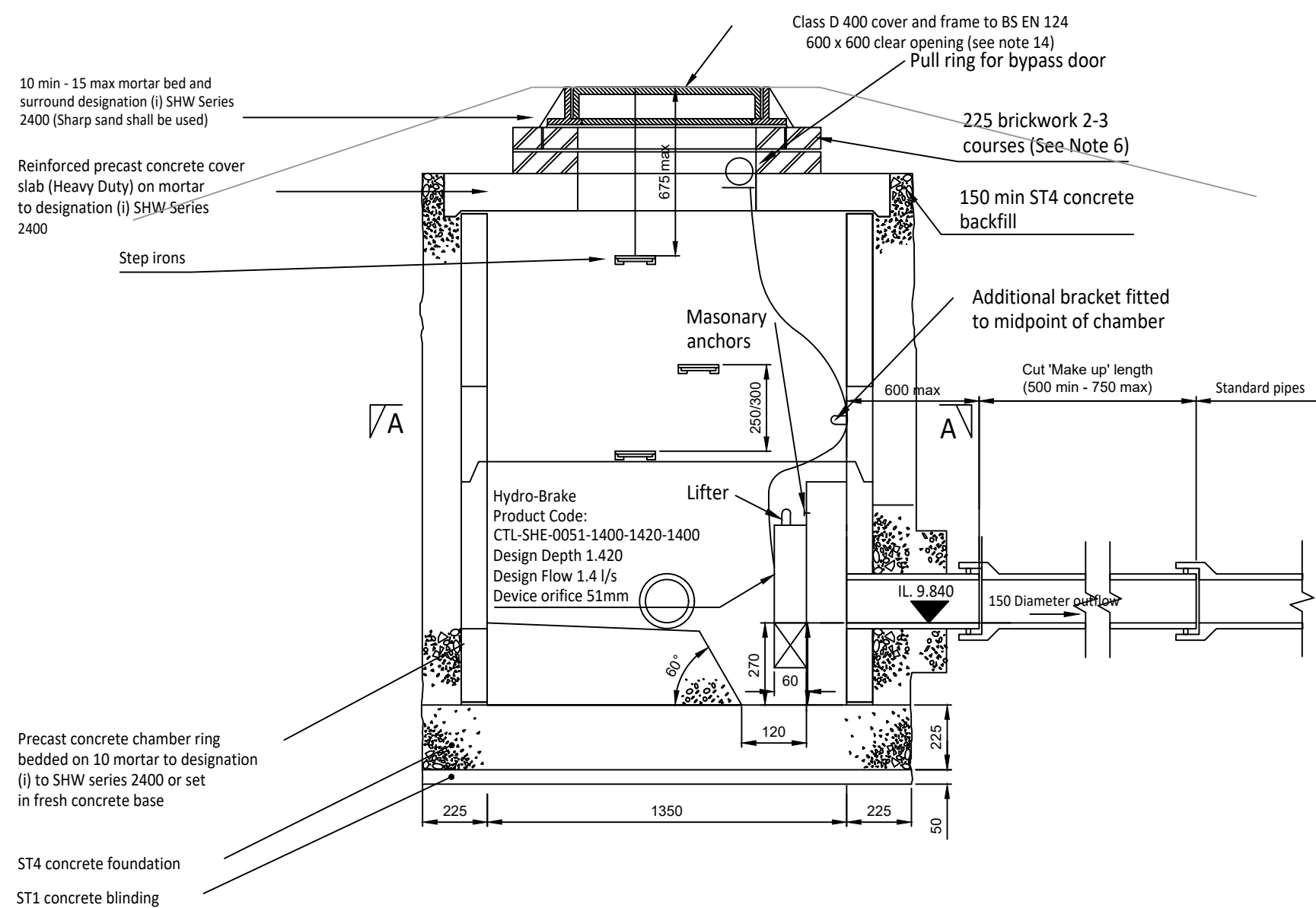


Control Manhole S8

1. All dimensions are in millimetres
2. Water Authorities Association guide Sewers for Adoption applies where modified by this drawing.
3. Cover and frame to be Class D400 Badgemarked, HD, and Kitemarked and have a protective coating complying with BS EN 124: 1994.
4. Catchpits to be positioned so that no part of the structure is under the kerb.
5. Entrance to catchpits to be positioned with consideration for safety.
6. Bricks to be Engineering Class B to BS 3921 laid in English Bond in mortar to designation (i) to SHW series 2400.
7. Pre-cast concrete chambers shall comply with BS 5911 Part 200.
8. Mortar to designated (i) to SHW series 2400 or a proprietary sealant shall be used in all joints between precast concrete units.
9. Finish to internal concrete to be F1 on formed surfaces and U2 on unformed surfaces.
10. All voids beneath the catchpit structure shall be backfilled with ST1 concrete.
11. Ends of pipes shall be neatly built into the chamber and finished flush with mortar to designation (i) to SHW series 2400.
12. The nearest joints to chamber shall not be restricted by concrete
13. Safety chains or grills must be provided where pipe diameter exceeds 600.
14. Surface level tolerance +6 -15 in paved areas -15 min. -50 max. in verges.



CELLULAR ATTENUATION DETAIL
(REFER TO DRAINAGE LAYOUT FOR SITE SPECIFIC DETAIL)

80mm PRIORA PENCIL EDGE PERMEABLE BLOCK PAVING
(BY MARSHALLS) BUFF IN COLOUR

50mm 2-6mm AQUAFLOW CLEAN STONE
BY HANSON AGGREGATES

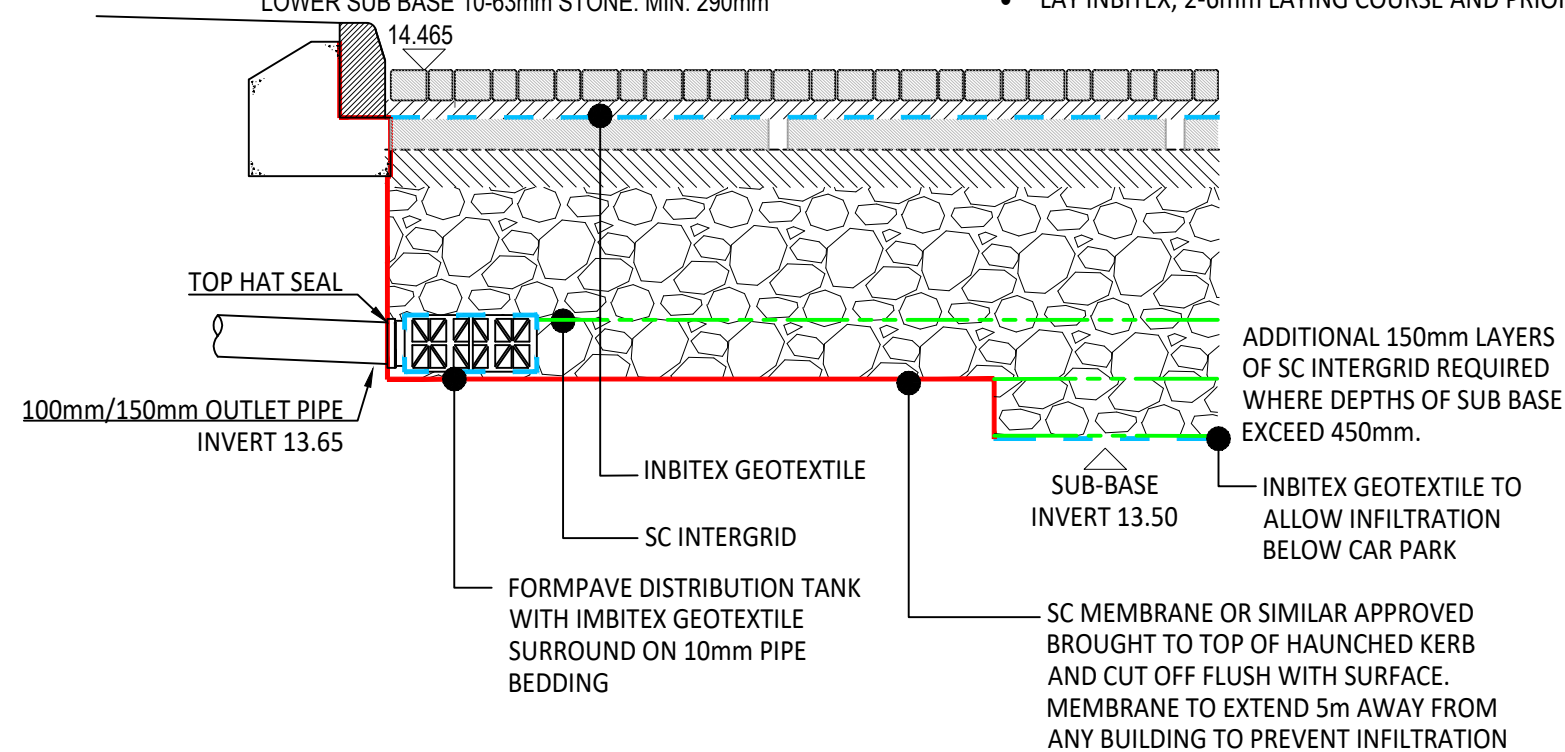
80mm DENSE BASE COURSE ASPHALT *

GRANULAR SUB BASE
UPPER SUB BASE 4-20mm STONE. MAX. 100mm
LOWER SUB BASE 10-63mm STONE. MIN. 290mm

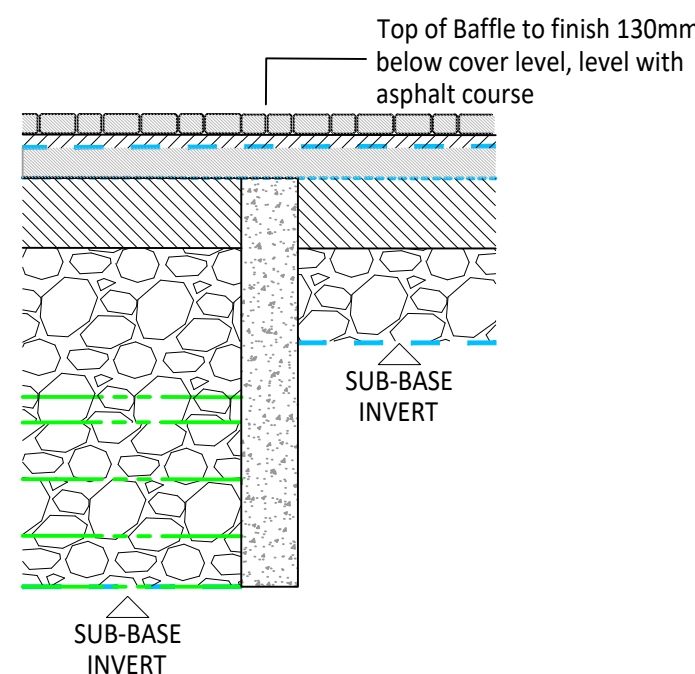
- LAY MEMBRANE, INTERGRID, AND SUB-BASE
 - LAY 80mm OF DENSE BITUMEN MACADAM OVER SUB-BASE
- AFTER BUILDING WORK IS COMPLETED*

AFTER BUILDING WORK IS COMPLETED

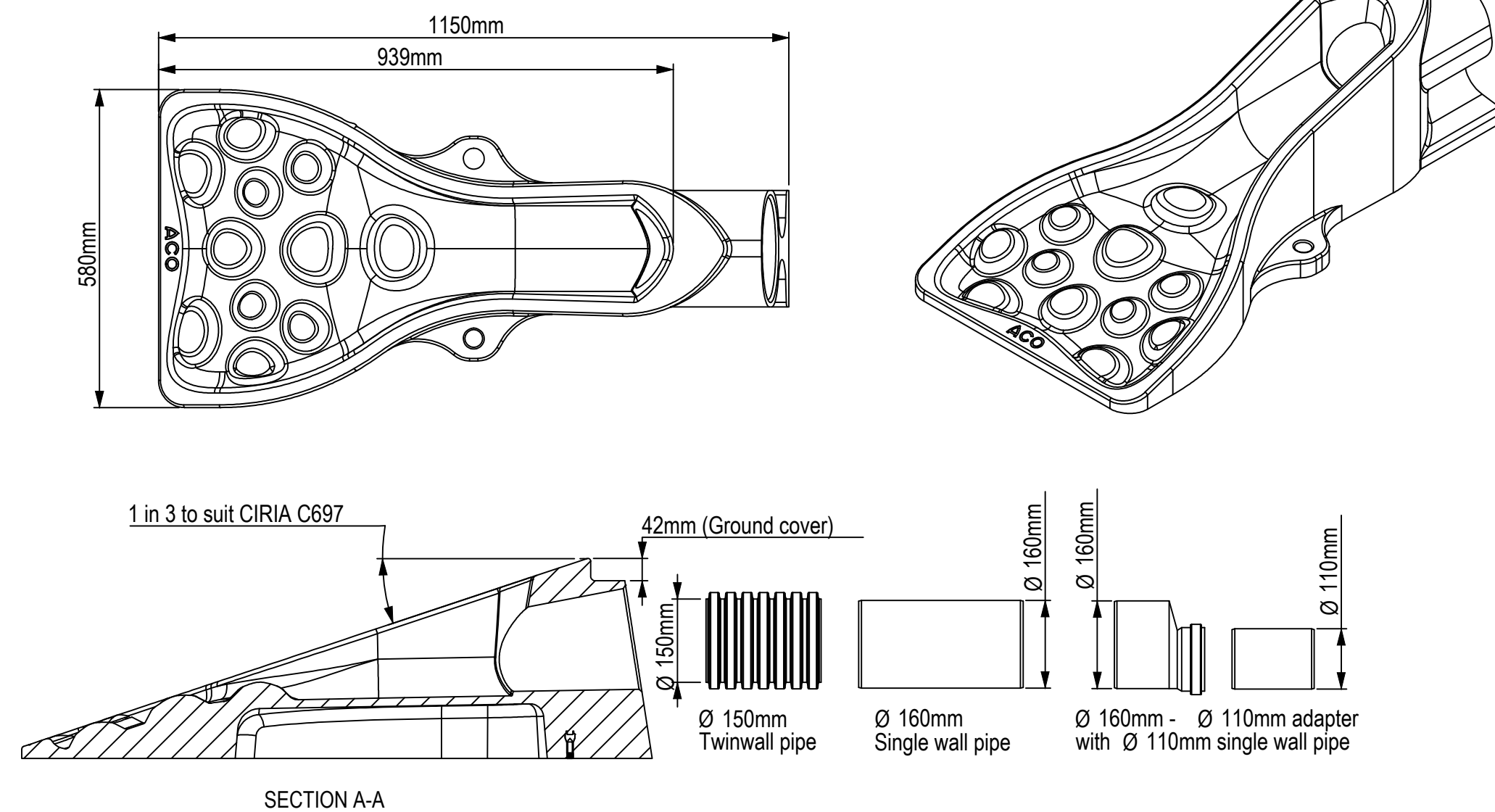
- CLEAN DENSE BITUMEN MACADAM SURFACE
- CUT 50mm DIAMETER HOLES AT 1.0m CENTRES THROUGH THE DBM SURFACE INTO THE SUB-BASE
- FILL HOLES WITH 2-6mm CLEAN STONE
- LAY INBITEX, 2-6mm LAYING COURSE AND PRIORA BLOCKS



PERMEABLE BLOCK PAVED CAR PARK & DISTRIBUTION TANK DETAIL



TYPICAL CONCRETE BAFFLE DETAIL



ACO SWALE INLET DETAIL

SCALE NTS

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DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All sewers to comply with the requirements of Design and Construction Guidance together with Southern Water's 'Aseptic' standard for public sewers are to be in the subject of a Section 104 agreement of the Water Industry Act 1991.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works or for the duration of the project.
7. All manhole inlets comply with BS EN1214, and be stamped with BSI Kitemark. covers to suit loading as below:
 - Carriageways and Drains - D400
 - Footways and Verges - D300
 - Footways and Landscaping Areas - B125
 - Gardens/Pedestrian - A15
8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN286. All sewer pipes 300mm diameter and above, to concrete pipes to BS EN591.
9. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and Building Regulation.
10. All bedding shall be Class 5 unloam noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath footpaths are pedestrian areas with less than 500mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully sections (drains and manholes) of 150mm diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that still live with in order to be reported to the Engineer.
17. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
18. All private drains to be 100mm diameter unless otherwise stated.
19. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building regulations, together with NHBC Standards Chapter 5.3 and BS8303.
20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
21. Where inverts are less than 0.6m deep dimension chamber (invert to invert) or manhole (invert to 1200mm) to be used, elsewhere proprietary plastic blocks or pipe to be used and sized in accordance with Table 11 of Document H of the Building Regulations (<0.6m to invert min DN300, <0.6m to invert min DN475).
22. All gullies connect direct to drains to be roddable.
23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
24. Unless noted otherwise FW ICs & RE's to be 0.6m below level, SW ICs and RE's to be 0.3m below level.
25. Adequate precautions in accordance with Approved Document H and manufacturers' recommendations to be taken to protect drains (particularly partially) at shallow depths.
26. Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
27. Trees and shrubs of a large size or heavy canopy with a moderate or high water demand must not be planted within sewer easement.
28. Gullies within and adjacent to areas of site works to be cleaned at commencement and completion of works.
29. Sewer root barrier of an approved type to be installed vertically along the back edge kerb of all areas of footpath/demarcation to protect from both proposed and future plantation.
30. Where connections are being made to pipelines rather than to manholes all connections are to be made using oblique 45° junctions.

C	10/21	Distribution Tank added to permeable block paved car parking detail	JS	SI
B	09/21	Block paved car park & baffle detail added. Hydrobrake invert level ammended.	JS	SI
A	07/21	First Issue	JS	SI
Rev	Date	Description	Drawn	Check



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Client
Frontier

Project
Dappers Lane
Angmering

Title
Drainage Details
Sheet 2

Status	For Approval
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Scale NTS	Date Jul '21	Drawn JS	Checked SL
Drawing No A360-08			Revision C