



**OLD CLAYTON KENNELS, STORRINGTON
DRAINAGE VERIFICATION REPORT.**

Relating to the Sustainable Underground Drainage System

Job No J5869
2ND October 2026

Introduction

Patterson Reeves & Partners were instructed to carry out an independent assessment of the Sustainable Underground Drainage System designed by PAUL BASHAM ASSOCIATES, as installed, and confirm that the scheme was built in accordance with the approved drawings, and is fit for purpose

We have reviewed the PAUL BASHAM ASSOCIATES Record drawings, and their report.

Plus

PARCHOW GROUNDWORKS LTD quality assurance report on attenuation tank installations along with their CCTV/Drain surveys.

We have also reviewed SUDS information delivery tickets carried out by HYDRO INTERNATIONAL along with all technical data sheets, all as provided by HIGHWOOD.

In **Appendix A** we have identified a number of outstanding items which either required additional information or have now been completed, and provided photographic evidence.

In **Appendix B** we have listed and included the drawings and reports which have been made available.

Having reviewed the drainage defects and remedial action taken, and confirmed.

We are therefore satisfied the all the below ground drainage issues have been resolved, and no further action is required.

Yours faithfully

Michael Doree
Civil & Structural Design Engineer



APPENDIX A

Clause 3.4

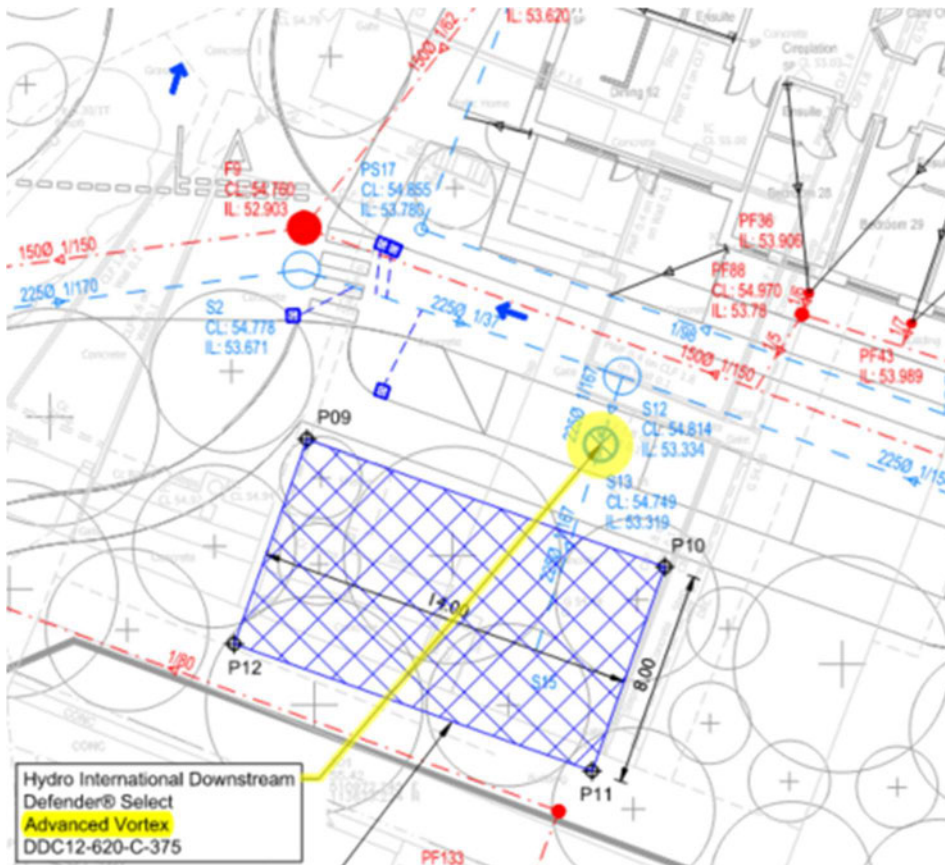
Pipe appears to be raised locally, and confirmed as rectified on site.
Refer to Clause 6.1 in SUDs verification report 024.5063/SVR 1
No further action required,

Also, pipework rises in downstream direction requiring relaying section of pipe and reconstrued correctly to manholes. - this has been carried out,
Refer to clause 6.1 in SUDs verification report 024.5063/SVR 1
No further action required.

Underground Drainage system complete, with all defects rectified.

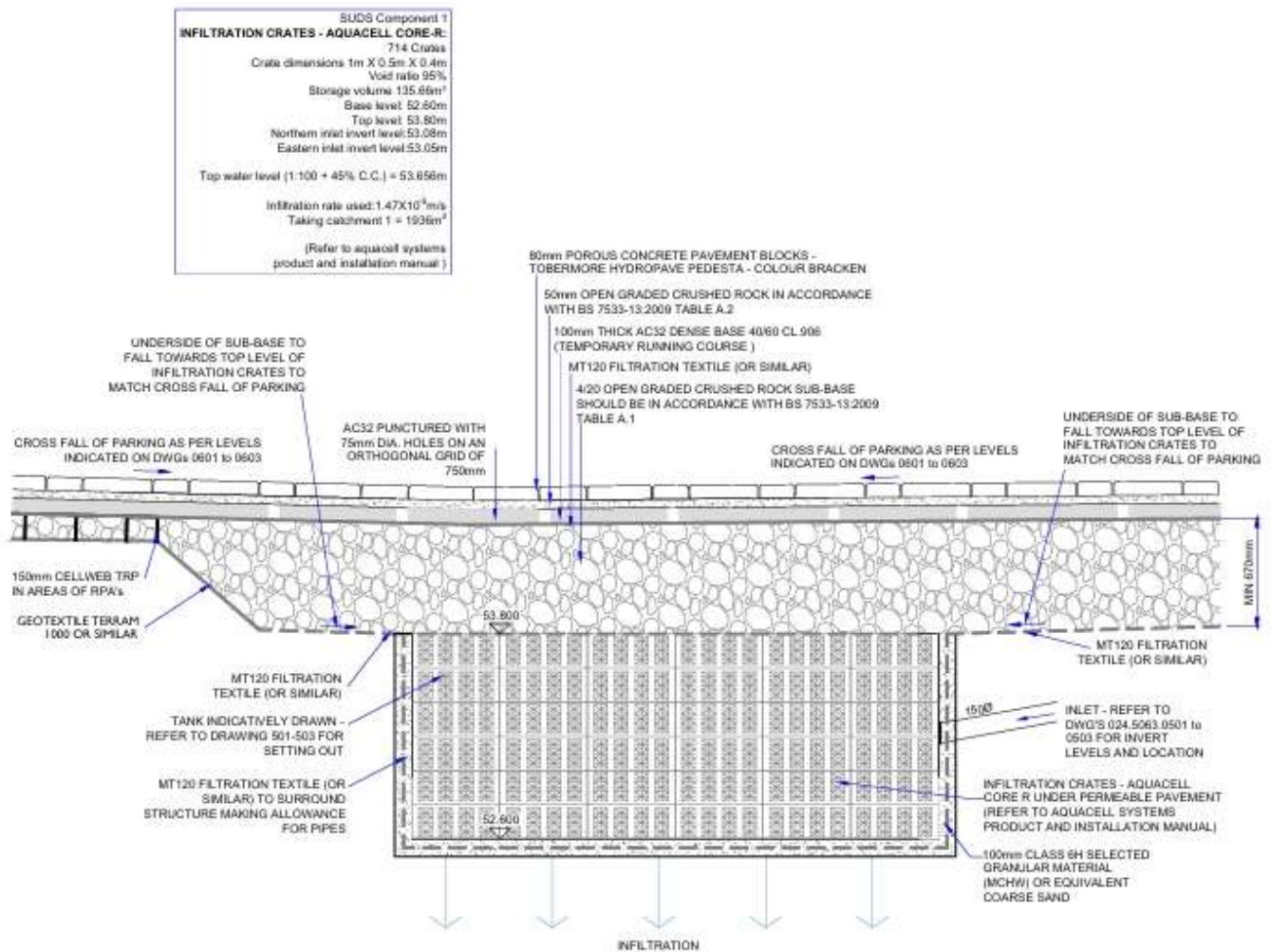
Clause 4.3 Vortex Separator.

Extract showing location of installed Advance Vortex DDC12-620-C-375 vortex.
Highlighted in yellow.
For filtering of surface water from vehicular road north.





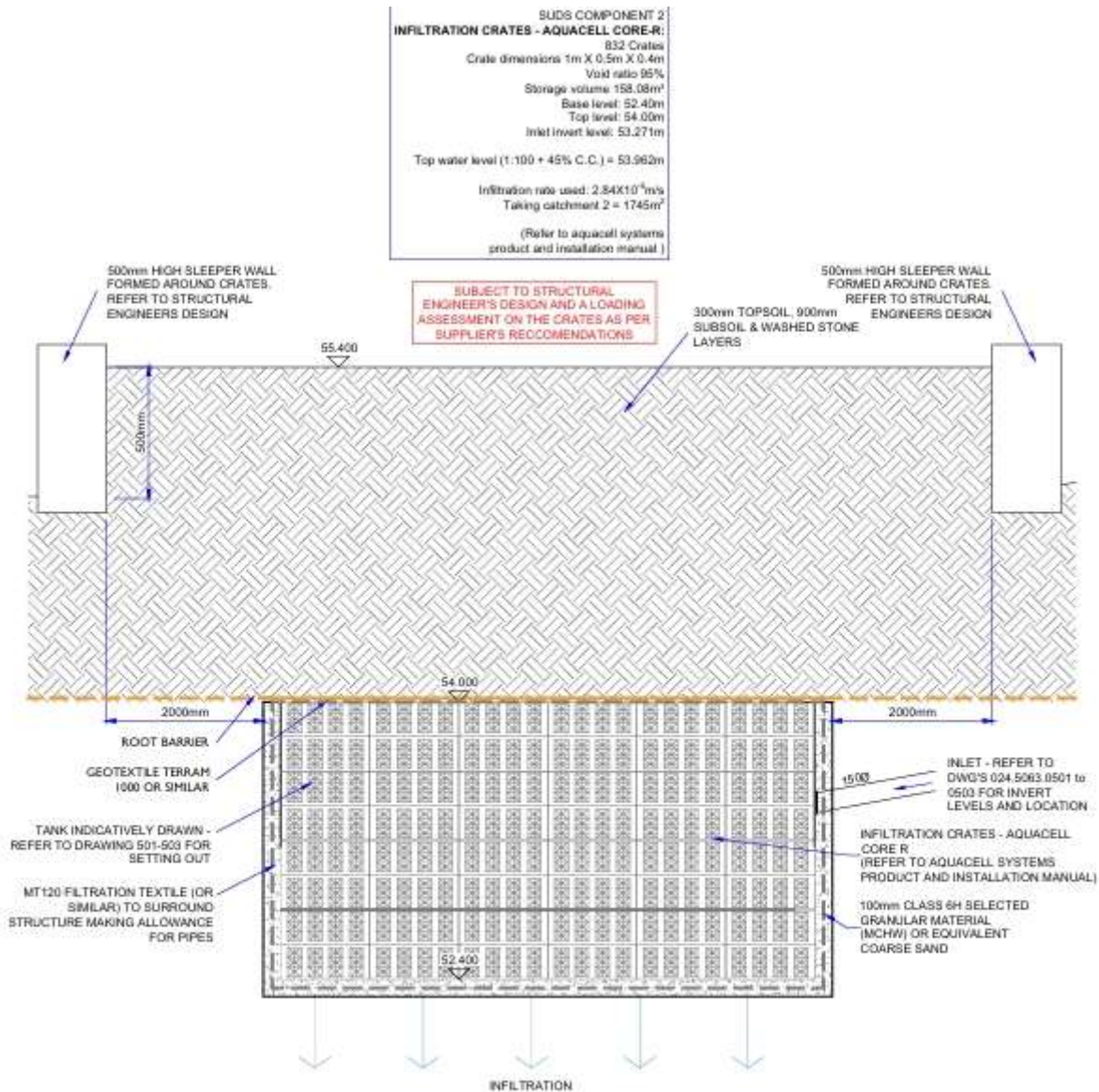
Detail of Suds component 1



TYPICAL SECTION THROUGH SUDS COMPONENT 1



Details of Suds Component 2



TYPICAL SECTION THROUGH SUDS COMPONENT 2



PRODUCT LITERATURE

Greenfix Rootbarrier 400 Impermeable Rootbarrier

PRODUCT SPECIFICATION



Greenfix Rootbarrier 400 Impermeable Rootbarrier

Application and Benefits

Greenfix Rootbarrier 400 consists of a woven HDPE base material which is reinforced and coated with a triple layer of LDPE. The membrane is UV stabilised and suitable for outdoor applications.

Rootbarrier 400 is available in rolls 1.83m x 50m or in site specific pre-welded panels up to 32m wide and 300m long.

Product Characteristics

Physical Form	Woven HDPE Coated on both sides with LDPE film
Roll / Panel Detail	1.83m x 50m long rolls or pre-welded panels up to 32m wide x 300m long
Weight (ASTM D5261)	244gms/m ² (+/-5%)
Tensile Properties (ASTM D6693/ D6693M-04(2015)E1)	3.0%
Break Strength	MD - 25.9 N/mm CD - 20.4 N/mm
Break Elongation	MD - 18% CD -20%
Puncture Resistance (ASTM D4833/D4833-07(2013)E1)	557 N
Tear Resistance (ASTM D1004-13)	MD -74 N CD - 71 N
Accel. UV Weathering (ASTM G154)	>90% after *2000hrs exposure
Colour	Black/White



Rootbarrier 400 tape.

PRODUCT SPECIFICATION



Rootbarrier 400 Tape

Application and Benefits

Rootbarrier 400 Tape is a high performance polyisobutylene (butyl) based double sided sealing tape designed for joining Rootbarrier 400. This product is non-toxic and requires no specialist PPE.



Product Characteristics

Description	Units	Value
Thickness	mm	1.5mm
Roll Dimensions	mm/m	50mm x 10m
Service Temp Range	°C	-40 to +90
Joint Movement	%	Up to 15
Dynamic Tensile Tension	N/cm ²	24
Dynamic Shear	N/cm ²	22
Moisture Vapour Trans	g/m ² /24hr/mm	0.025

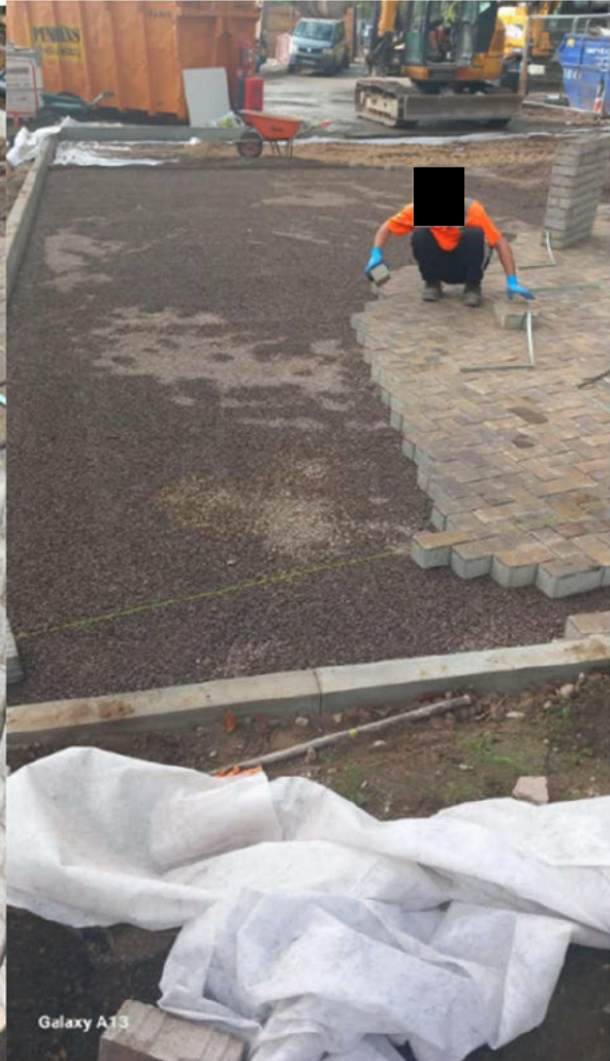


Clause 4.4 Permeable paving –

Record photographs



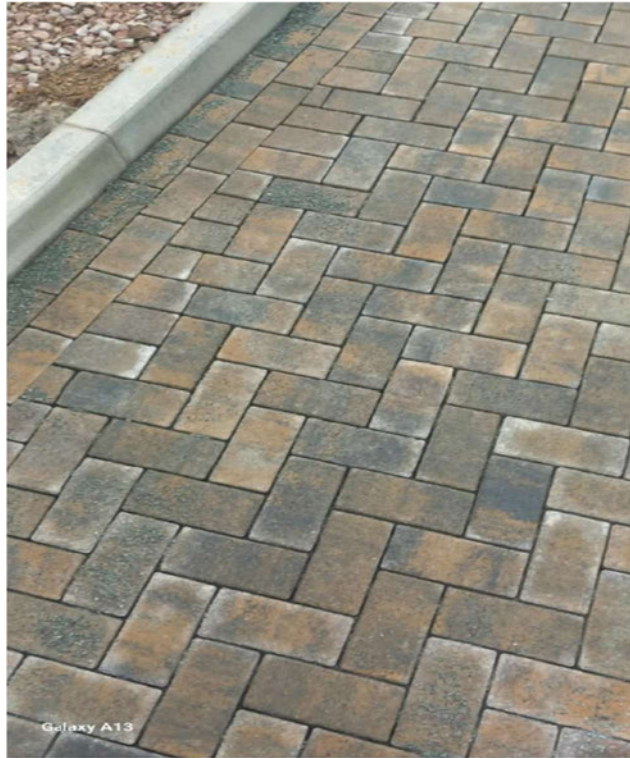
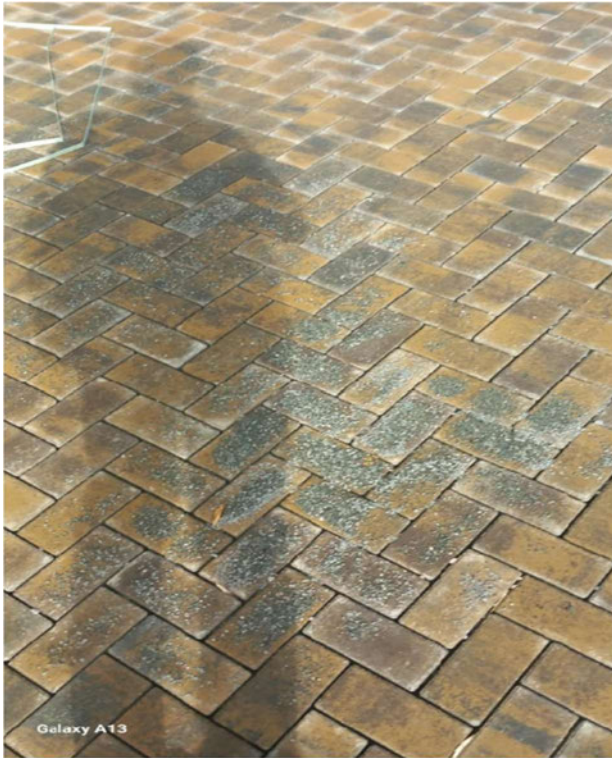
Approved Tobermore Hydropave,



Build up compliant with SUDs details



PHOTOGRAPHIC RECORD OF COMPLETED INSTALLATION





APPENDIX B

Schedule of Drawings, Product Data and reports provided.

PBA Verification report 024. 5063/SVR 1

For Construction drainage drawings by PBA

PAUL BASHAM ASSOCIATES Drainage Layout sheet 1-	No 024.5063-0501 Rev C06
PAUL BASHAM ASSOCIATES Drainage Layout sheet 2-	No 024.5063-0502 Rev C04
PAUL BASHAM ASSOCIATES Drainage Layout sheet 3-	No 024.5063-0503 Rev C04
PAUL BASHAM ASSOCIATES Drainage Schedule sheet 1,	No 024.5063-0551 Rev C04
PAUL BASHAM ASSOCIATES Drainage Catchment Plan	No 024.5063-0575 Rev C03

Drainage Reports, CCTV's and related drawings

ALL HOURS PLUMBING LTD	- Storm Drainage report-Project Number 476
HYDRO INTERNATIONAL	- Suds Information
PARCHOW GROUNDWORKS LTD	- Report

Photo`s

Attenuation Tank 1 - supplied by client
Attenuation Tank 2 - supplied by client

WAVIN SPEC

Product Datasheets Aquacell Core-R