

Surface Water Drainage Report

8 Autumn Gate, Chichester

Planning Ref: AL/6/25/DOC

For

John Wilson

Rev – **P2**

Reference **C3621**

Date **10th April 2025**

Revision	Date of Issue	Comments	Prepared By	Checked By
PL-	10/04/2025	Initial Issue	MR	CS
P1	24/07/2025	Updated to ADC comments	MR	CS
P2	05/09/2025	Updated to ADC comments	MR	CS

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1 Introduction

- 1.1.1 CGS Civils Ltd has been appointed to undertake a drainage strategy report for a proposed development at 8 Autumn Gate, Hook Lane, Chichester.
- 1.1.2 The purpose of this drainage strategy is to demonstrate how the development area can be satisfactorily drained without increasing flood risk onsite and elsewhere in order to clear Condition 4. The condition is in place on Decision Notice from **21.02.2025**, with the planning reference: **AL/6/25/DOC**.
- 1.1.3 The existing site consists an existing residential dwelling. The proposed development will consist of single storey rear/side extension. The proposed development is located as OS Grid Reference **SU 93564 04574** and has the post code **PO20 3TE**.
- 1.1.4 The proposed site plan can be found at **Appendix A**.

Fig 1. Site Location



2 Executive Summary:

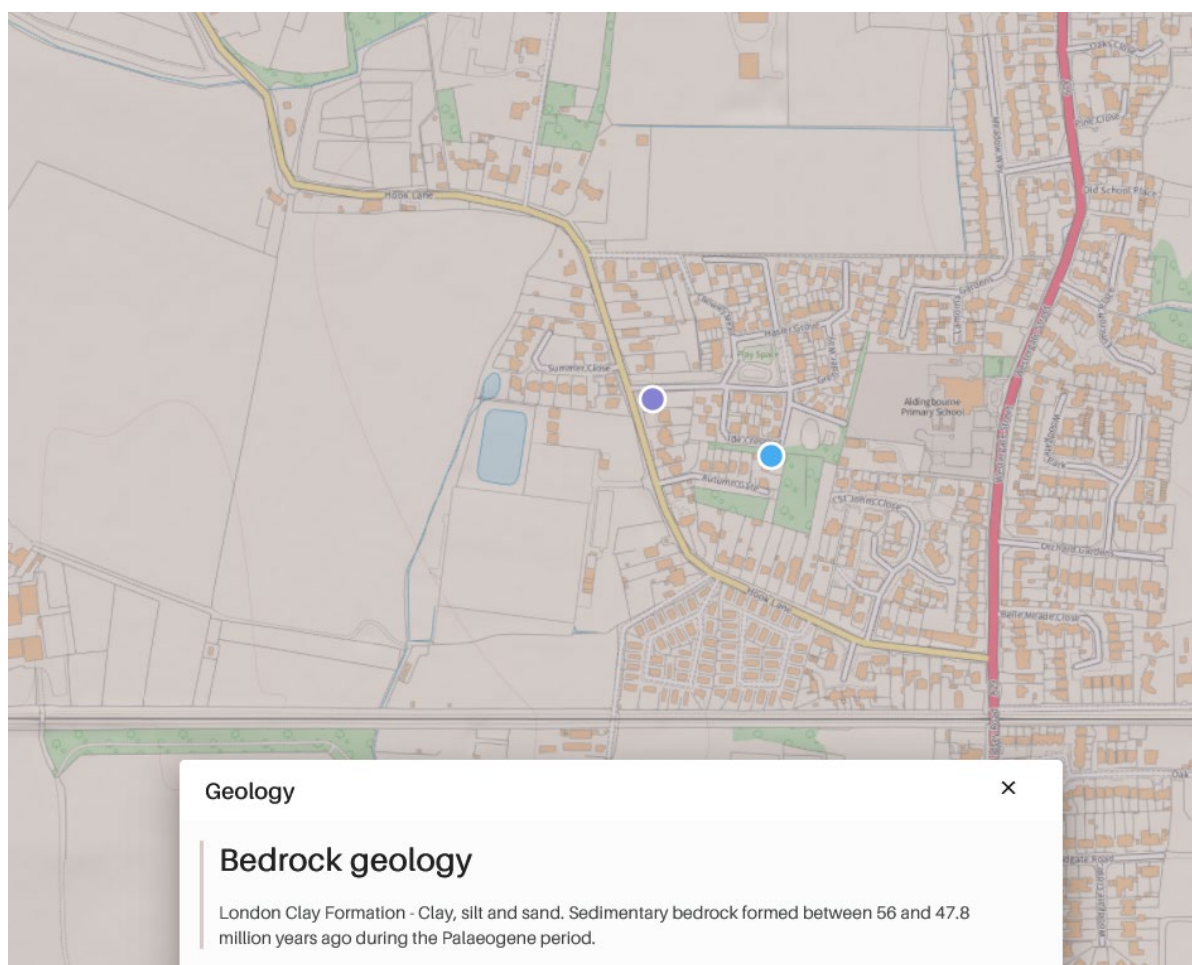
- 2.1.1 Surface water runoff from an extension roof area is to be discharged into an existing drainage network onsite, following the principles of the drainage design approved under application AL/112/21/DOC. Surface water flow discharge rate from the extension has been restricted to 0.6 l/s. The network designed in order to cater for the 1 in 100 year + 45% storm + 10% urban creep allowance.

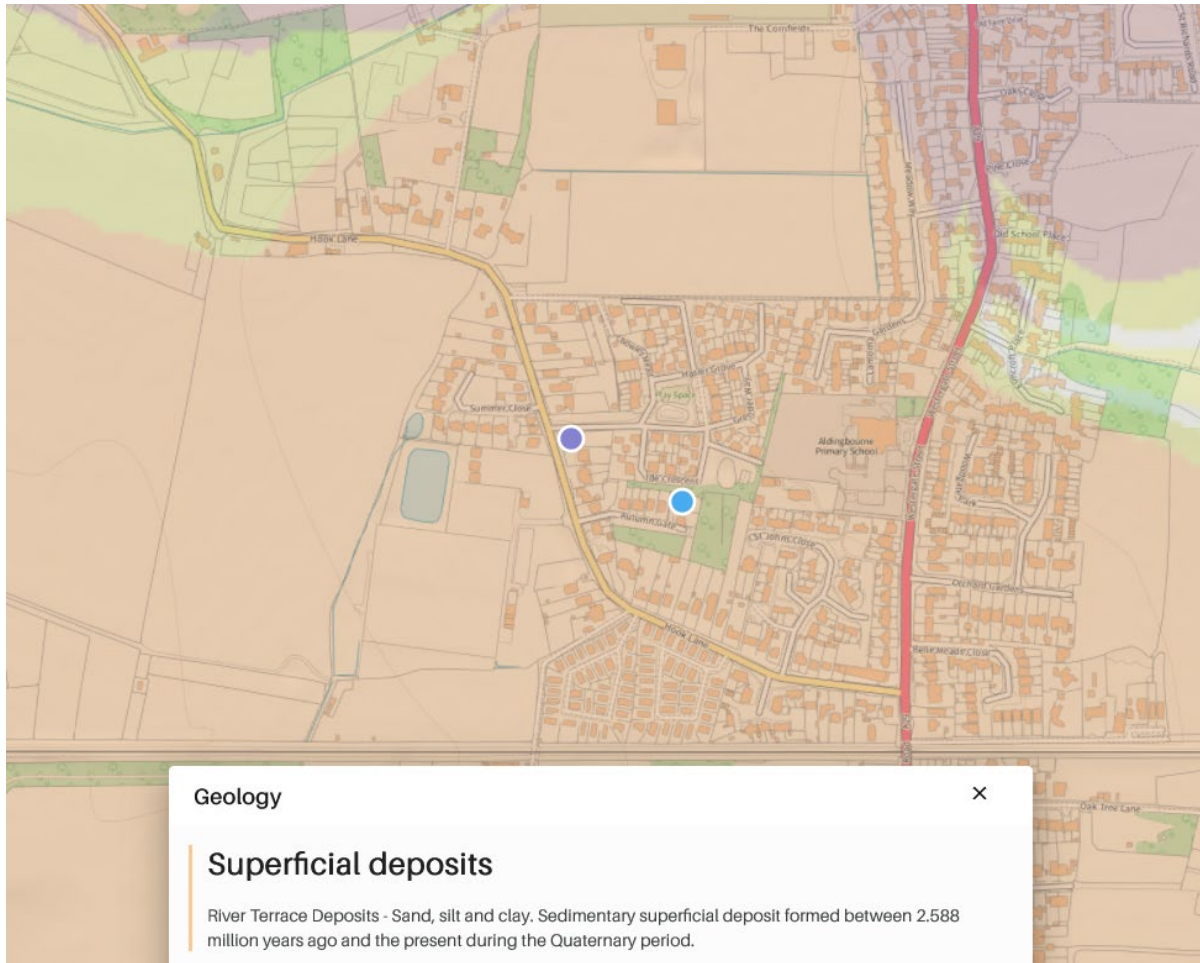
3 Site Geology

3.1 British Geological Survey information

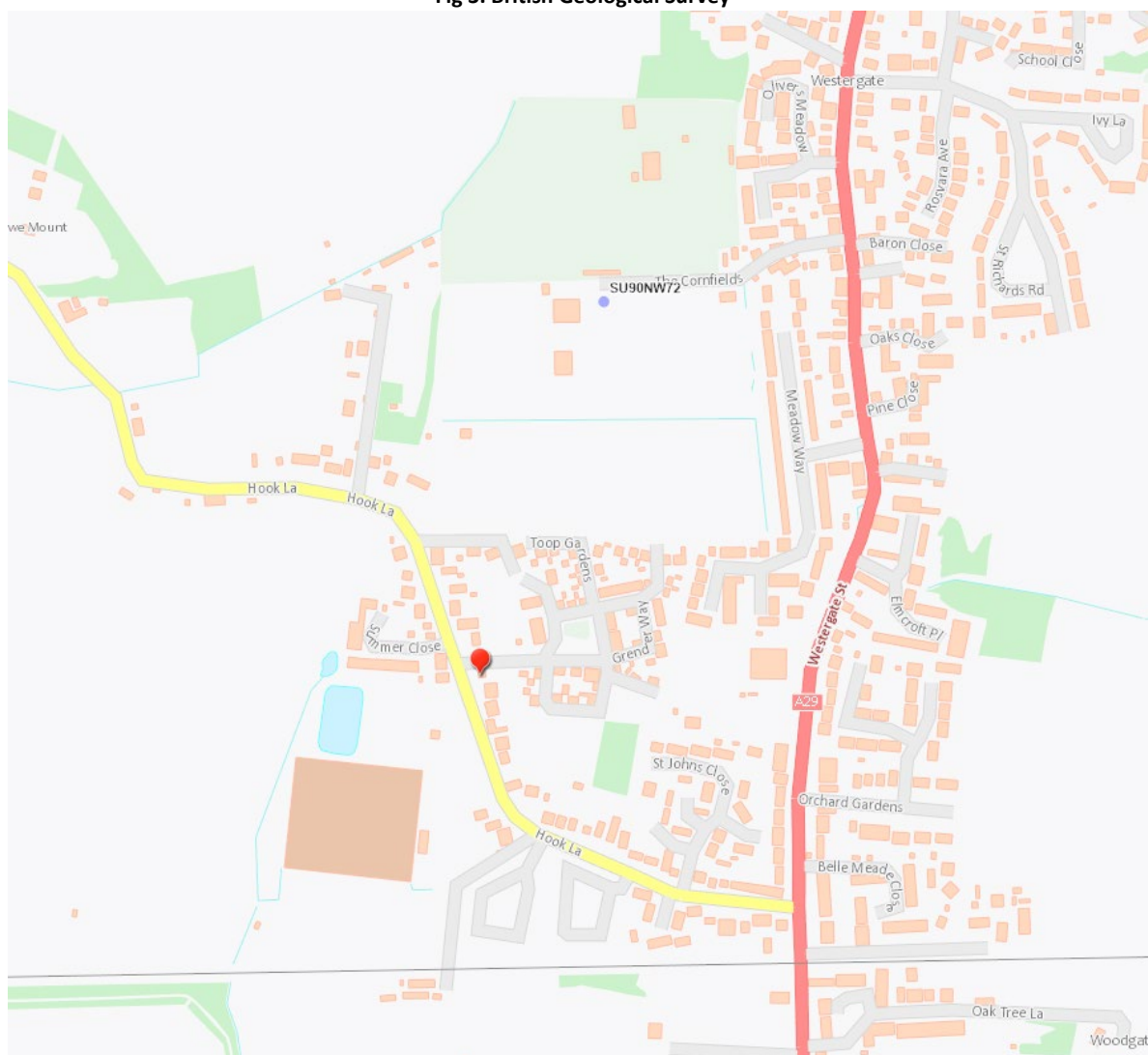
- 3.1.1 The British Geological Survey confirms the bedrock geology to be made up London Clay Formation- Clay, silt and sand. The BGS website confirms the superficial deposits on site to be made up of Head – River Terrace Deposits- Sand, silt and clay.
- 3.1.2 The British Geological survey also holds records of historical boreholes near the site which give some insight into the ground geology.
- Borehole **SU90NW72** (Located approx.400 m North of the site) – Ground geology (Silt, Clay, Clayey gravel)
- 3.1.3 The British Historical Borehole Logs can be found at **Appendix B**.

Fig 2. British Geological Survey





Snippet from BGS Website showing Bedrock geology/superficial deposits <http://mapapps.bgs.ac.uk/geologyofbritain/home.html?>

Fig 3. British Geological Survey**Snippet from BGS Website showing Historical Borehole Logs**

3.2 Geological Assessment

- 3.2.1 Groundwater monitoring was carried out by Ground and Water Limited on 21 January 2021 for the Springfield Hook Avenue development. Three trial holes were excavated, at depths ranging from 1.50 mbgl to 2.00 mbgl. The results confirmed that the site is underlain by silty, sandy clay and sand soils. The highest groundwater level was recorded at a depth of 0.22 mbgl.

4 Existing Drainage

- 4.1.1 The Springfield Hook Avenue development is directly associated with the proposed extension, as the extension pertains specifically to Building No. 8 of the Springfield Hook Avenue scheme. The existing development drainage plan was approved on 26 October 2021 under application reference: AL/112/21/DOC. Due to the high groundwater levels recorded on site, the existing development discharges all surface water into the existing ditch located to the north of the site, at a restricted discharge rate of 1.2 l/s.

5 Proposed Drainage Strategy

5.1 SuDS Hierarchy

- 5.1.1 All options for the destination of run-off generated on site have been assessed in line with the SuDS hierarchy as set out in Building Regulations Part H document and DEFRA's Draft National Standards for SuDS.

Table 1. SuDS Hierarchy

Discharge Destination	
Rainwater Harvesting	N/A
Discharge to Ground	N/A
Discharge to Watercourse	YES- Surface water from the proposed extension is to be discharged into an existing ditch, by indirect connection into the existing drainage located onsite, at a restricted flow discharge of 0.6 l/s
Discharge to Surface Water Sewer	N/A
Discharge to Other Sewer	N/A

5.2 Proposed Hydraulic Calculation Specifications:

Table 2. SuDS Hierarchy

Hydraulic Calculations Settings:	
Rainfall Methodology	FEH-22
Volumetric Run-off Coefficient Cv	1
CV Winter and Summer	1
Additional Storage (m ³ / ha)	0.0
Maximum Rainfall (mm/hr)	75
Flow Control	0.211m Head @ 0.6l/s discharge

5.3 Surface Water Drainage

- 5.3.1 Based on the all information provided from Arun DC Planning Portal, it is proposed that surface water runoff from the proposed extension area is to be discharged into the existing ditch located to the north of site, via indirect connection into the existing drainage located onsite, at a restricted discharge rate of 0.6l/s.
- 5.3.2 The drainage network has been designed to cater for the 1 in 100- year storm event, with an additional 45% allowance for climate change and 10% for urban creep allowance.
- 5.3.3 To comply with *Standard 2 of National standards for SuDS*, a lined bioretention planter unit is proposed and designed to capture, convey, and store the first 5 mm of rainfall. This system will enable runoff to be naturally absorbed or evaporated into the atmosphere.
- 5.3.4 Proposed Drainage Strategy, Proposed Typical Construction Details and Hydraulic calculations have been carried out which can be found at **Appendix C**.

5.4 Water Quality

- 5.4.1 A key requirement of any SuDS system is that it protects the receiving water body from the risk of pollution.
- 5.4.2 Frequent and short duration rainfall events are those that are most loaded with potential contaminants (silts, fines, heavy metals, and various organic and inorganic contaminants) Therefore the first 5-10mm of rainfall should be adequately treated with SuDS.
- 5.4.3 The new SuDS Manual (Ciria C753, November 2015) introduces slightly different approach compared to the previous version for the water quality management of surface water. The Manual describes risks posed by the surface water runoff to the receiving environment as a function of:
- The pollution hazard at a particular site (i.e., the pollution source)
 - The effectiveness of SuDS treatment components in reducing levels of pollutants to environmentally acceptable levels
 - The sensitivity of the receiving environment
- 5.4.4 The recommended approaches for water quality risk management are given in the SuDS Manual Table 26.1.

Table 26.1 from SuDS manual. Approaches to Water Quality Risk Management

Table 26.1 Approaches to Water Quality Risk Management			
Design method	Hazard Characterisation	Risk Reduction	
		For Surface Water	For Groundwater
Simple Index Approach	Simple pollution hazard indices based on land use (Table 26.2)	Simple SuDS hazard mitigation indices (Table 26.3)	Simple SuDS hazard mitigation indices (Table 26.4)
Risk Screening	Factors characterising traffic density and extent of infiltration likely to occur (Table 26.5)	N/A	Factors characterising unsaturated soil depth and type, and predominant flow type through the soils (Table 26.5)
Detailed Risk Assessment	Site specific information used to define likely pollutants and their significance	More detailed, component specific performance information used to demonstrate that the proposed SuDS components reduce the hazard to acceptable levels	
Process-based treatment modelling	Time series rainfall used with generic pollution characteristics to determine statistical distributions of likely concentrations and loadings in the runoff	Models that represent the treatment processes in the proposed SuDS components give estimates of reductions in even mean discharge concentrations and total annual load reductions delivered by the system	

- 5.4.5 As per Table 26.1 Simple Index approach will be used as a design method for this site.
- 5.4.6 Table 26.2 will provide hazard classification of different land uses. The land uses for the surface water drainage for this site are.
- Residential Roofs
 - Individual Property driveways and residential car parks
 - Low traffic roads
- 5.4.7 To deliver adequate treatment, the selected SuDS components should have a total pollution mitigation index for each contaminant type that equals or exceeds the pollution hazard index for each contaminant type. Therefore, the following must be achieved for the surface running off the site.

Total SuDS mitigation index $\geq$ pollution hazard index

5.4.8 Pollution Hazard Indices are given for different land uses in Table 26.2 of the SuDS manual;

Table 26.2 from SuDS manual. Pollution Hazard Indices for Different Land Use Classifications

Table 26.2 Pollution hazard indices for different land use classifications				
Land Use	Pollution Hazard Level	Total Suspended solids (TSS)	Metals	Hydro-Carbons
Residential roofs	Very Low	0.2	0.2	0.05
Other roofs (Typically commercial/industrial roofs)	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Individual property driveways, residential car parks, low traffic roads (e.g., cul-de-sacs, homezones and general access roads) and non-residential car parking with infrequent change (e.g., schools, offices) i.e., < 300 traffic movements/day	Low	0.5	0.4	0.4
Commercial yard and delivery areas, non-residential car parking with frequent change (e.g., hospitals, retail), all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7
Sites with heavy pollution (e.g., haulage yards, lorry parks, highly frequented lorry approaches to industrial estates, waste sites), sites where chemicals and fuels (other than domestic fuel oil) are to be delivered, handled, stored, used or manufactured; industrial sites; trunk roads and motorways	High	0.8	0.8	0.9

5.5 Construction Phase Drainage

- 5.5.1 It is an offence to cause or knowingly permit the entry of any polluting, poisonous or noxious material in the water environment. If the pollution is serious enough to lower the ecological status of the water body as set out in terms by the Water Framework Directive (2000/60/EC) then prosecution may occur.
- 5.5.2 Remediation of any damage caused will not require the polluter to be prosecuted first. If the water pollution is serious enough to be classed as environmental damage, the damage will require to be remediated such that the area is returned to the condition it would have been in if the damage had not occurred.
- 5.5.3 If any pollution has not been reported or the polluter has not taken actions to prevent any further damage; they would then be causing an offence. Third parties (e.g., Private water supply users, landowners, recreation users and the public) who may be affected by possible damage may also report the risk of any environmental damage to the enforcing authority.
- 5.5.4 The principles of SuDS (Sustainable Drainage Systems) shall be applied to all components of design and construction regarding surface water management. Any design or site works that may impact on the site drainage or the water quality shall:
- Soakaway where soils allow
 - Consider and manage erosion
 - Remove pollutants in surface water
 - Retain any silts on site and prevent silts from discharging to watercourses or drains
 - Keep runoff rates at existing greenfield runoff
 - Prevent accidental spillages reaching watercourse
- 5.5.5 As infiltration on site is not feasible, the temporary drainage for the development will be in the form of land drains, which will discharge into the existing watercourse subject to a trade effluent discharge application.
- 5.5.6 Pollution will be controlled via the use of catchpit manholes and geotextiles.
- 5.5.7 Any potential hazardous substances will be within a controlled compound with a separate drainage system that will contain a penstock valve / containment kit in the event of a spillage.

5.6 SuDS Drainage Maintenance Specification

5.6.1 As listed above, in section 5.1.2, the SuDS features used on site will be **Bio Retention Planter Unit**

5.6.2 The SuDS features have been designed for easy maintenance and comprise:

- Regular Day-to-Day care – litter collection, regular gardening to control vegetation growth and checking inlets where water enters the SuDS features
- Occasional tasks – checking the SuDS features and removing any silt that builds up in the SuDS feature
- Remedial work – repairing damage where necessary

5.6.3 Bio retention systems

In order to maintain the functioning of the bio retention systems, the following maintenance requirements should be adhered to:

Table 18.3 Operation and maintenance requirements for bio retention systems		
Maintenance Schedule	Required Action	Typical Frequency
Regular Inspections	Inspection infiltration surfaces for silting and ponding, record de-watering time of the facility and assess standing water levels in underdrain (if appropriate) to determine if maintenance is necessary	Quarterly
	Check operation of underdrains by inspection of flows after rain	Annually
	Assess plants for disease infection, poor growth, invasive species etc and replace as necessary	Quarterly
	Inspect inlets and outlets for blockages	Quarterly
Regular maintenance	Remove litter and surface debris and weeds	Quarterly (or more frequently for tidiness or aesthetic reasons)
	Replace any plants, to maintain planting density	As required
	Remove sediment, litter and debris build-up from around inlets or from forebays	Quarterly to biannually
Occasional maintenance	Infill any holes or scour in the filter medium, improve erosion protection if required	As required
	Repair minor accumulations of silt by raking away surface mulch, scarifying surface of medium and replacing mulch	As required
Remedial actions	Remove and replace filter medium and vegetation above	As required but likely to be > 20 years

5.7 General Drainage Maintenance Specification

5.7.1 Inlet Structures and Inspection Chambers

- Inlet structures such as rainwater downpipes, road gullies and channel drains should be free from obstruction at all times to all free flow through the SuDS
- Inspection Chambers and Rodding Eyes are used on bends or where pipes come together. They allow access and cleaning to the system if necessary.

Inlet Structures and Inspection Chambers	
Regular Maintenance	Frequency
Inlet Structures Inspect rainwater downpipes, channel drains and road gullies, removing obstructions and silt as necessary. Check that there is no physical damage. Strim vegetation 1m min surround to structures and keep area free from silt and debris	Monthly
Inspections Chambers and below ground control chambers. Remove cover and inspect, ensuring that the water is flowing freely and that the exit route for water is unobstructed. Remove debris and silt. Undertake inspection after leaf fall in Autumn	Annually
Occasional Maintenance Check topsoil levels are 20mm above edges of chambers to avoid mower damage.	As necessary
Remedial Work Repair physical damage if necessary	As required

5.7.2 Below ground drainage pipes

- Below ground drainage pipes convey water to the SuDS system. They should always be free from obstruction to allow free flow.

Below Ground Drainage Pipes	
Regular Maintenance	Frequency
Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months then annually
Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
Remove sediment from pre-treatment inlet structures and inspection chambers.	Annually or as required
Maintain vegetation to designed limits within the vicinity of below ground drainage pipes and tanks.	Monthly or as required
Remedial Work	
Repair physical damage if necessary	As required
Monitoring	
Inspect all inlets, outlets and vents to ensure that they are in good conditions and operating as designed.	Annually
Survey inside of pipe runs for sediment build up and remove if necessary.	Every 5 years or as required

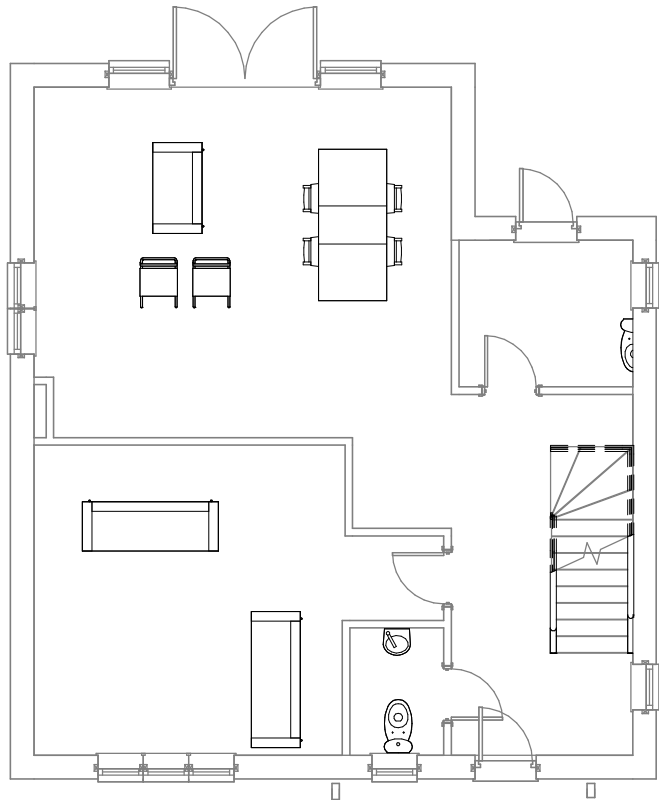
6 Summary and Conclusions

- 6.1.1 CGS Civils has been instructed to produce a Drainage statement under National Planning Policy Framework (NPPF) to support the Planning Application for single storey rear/side extension for an existing building.
- 6.1.2 The Surface Water will discharge into the existing ditch, at a restricted flow discharge rate of 0.6l/s. The drainage network has been designed to cater for the 1 in 100- year storm event + 45% climate change + 10% urban creep allowance
- 6.1.3 The report has demonstrated that the proposed drainage measures ensure that suitable means of surface water drainage can be achieved for the proposed development.

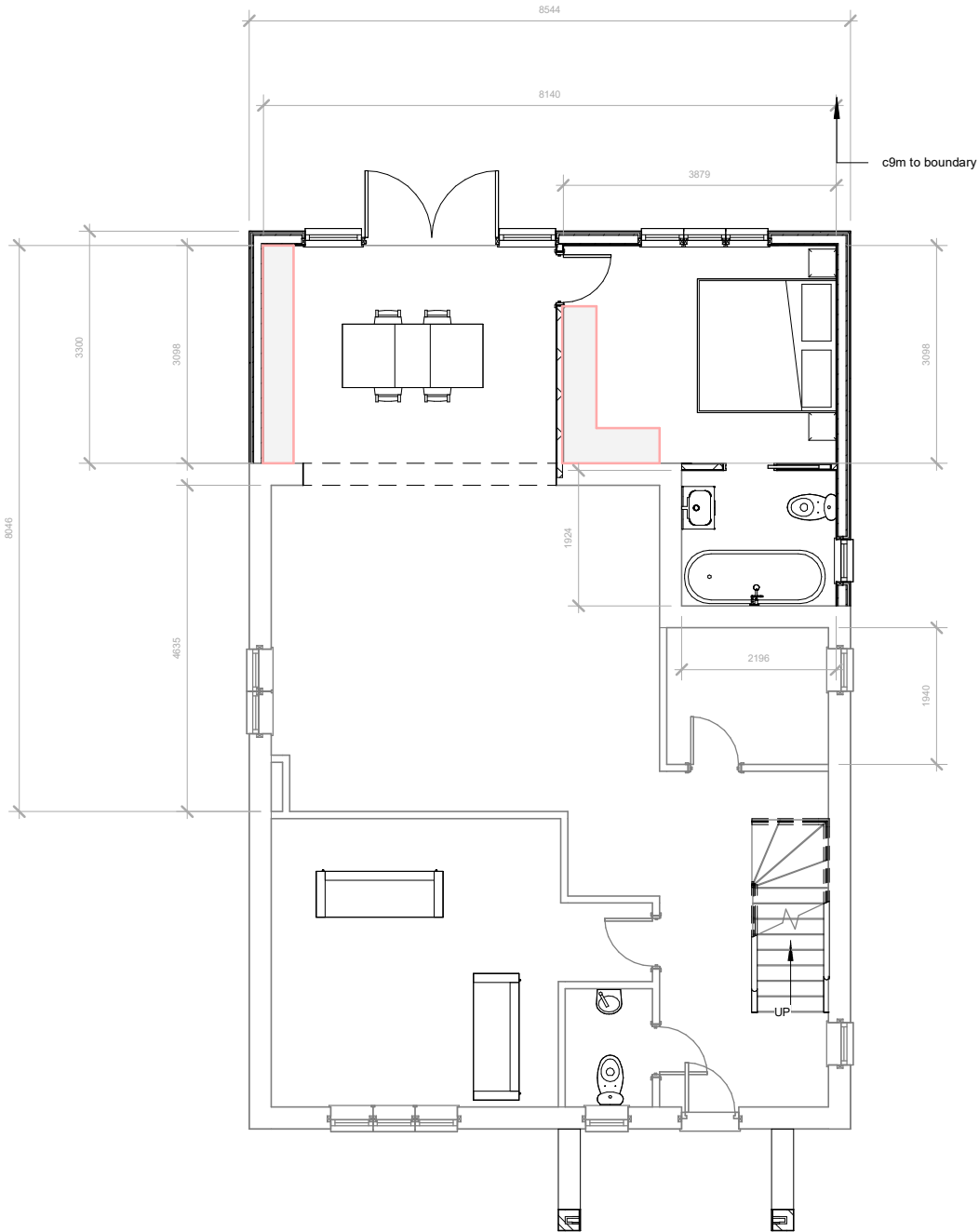
7 Appendices

7.1 Appendix A – Site Plan

Ground floor	Existing 64m2	Proposed 96m2
First Floor	64m2	96m2
Total	128m2	192m2



Existing Ground Floor



Proposed Ground Floor

1:500		50
1:200		20
1:100		10
1:50		5



All measurement to be checked on site prior to any commenent
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PROJECT

8 Autumn Gate Hook Lane

SHEET

Ground Floor

CLIENT			
Wilson			
Date	Issue Date	Scale (@ A3)	1 : 100
Drawn by	SW	DRAWING NUMBER	REV
Checked by	SR	P 1	

7.2 **Appendix B – Borehole Log**

SU 90 NW 72 9359 0501

Westergate

Block G

Surface level +10.8 m
Water struck at +7.8 m
September 1981

Overburden 2.2 m
Mineral 3.8 m
Bedrock 0.8 m+

LOG

Geological classification	Lithology	Thickness m	Depth m
	Soil	0.3	0.3
Brickearth	Silt, brown	0.4	0.7
	Clay, silty, brown, with a few pebbles near base	1.5	2.2
Head Gravel	a 'Very clayey' gravel Gravel: fine with coarse, angular to subrounded; flint, some white and porous Sand: coarse with fine and medium Fines: clay	0.8	3.0
Raised Beach Deposits (younger)	b 'Clayey' pebbly sand Gravel: coarse and fine, angular to subrounded; flint, some white and porous Sand: fine with traces of medium and coarse; quartz Fines: silt, brown	2.0	5.0
	c Sandy gravel Gravel: fine and coarse, angular to well rounded; flint (some white and porous), chalk and other rock fragments Sand: fine with coarse and medium; quartz	1.0	6.0
London Clay	Clay, stiff, dark olive grey with a few rounded flint pebbles	0.8+	6.8

GRADING

	Mean for deposit percentages			Depth below surface (m)	Percentages						
	Fines	Sand	Gravel		Fines	Sand			Gravel		
						-14	+14 -1	+1 -4	+4 -16	+16 -64	+64 mm
a	37	17	46	2.2-3.0	37	5	4	8	29	17	0
b	15	79	6	3.0-4.0	15	70	1	1	6	7	0
				4.0-5.0	15	84	1	0	0	0	0
				Mean	15	77	1	1	3	3	0
c	3	56	41	5.0-6.0	3	41	7	8	19	22	0
b+c	11	72	17	3.0-6.0	11	66	3	3	8	9	0
a+b+c	16	60	24	2.2-6.0	16	53	3	4	13	11	0

COMMERCIAL
IN CONFIDENCE

IGS 1536 (1159) 2000 1/76

Institute of Geological Sciences

Sheet 1 of

Borehole Reg No: SU90NW/72	Classification of ground	Thickness m	Nature
Temp borehole No: SU90/36	O.B.	to 2.2	silty clay
Nat Grid Ref: SU93590501	Min	2.2 to 6.0	variable fine sand, clayey gravel, sandy gr.
Locality: Colt Nursery, Westergate	BR.	6.0 to 6.8	grey London Clay
Surface level: 10.8 m O.D. (ft O.D.)			
Drilled by: Sondadores			
Drill type:			
Hole diameter:			
Depth(s) bailed:			
Date started: 8/9/81			
Date finished: "			
Recorded by: PHAN			

Remarks

Explanation

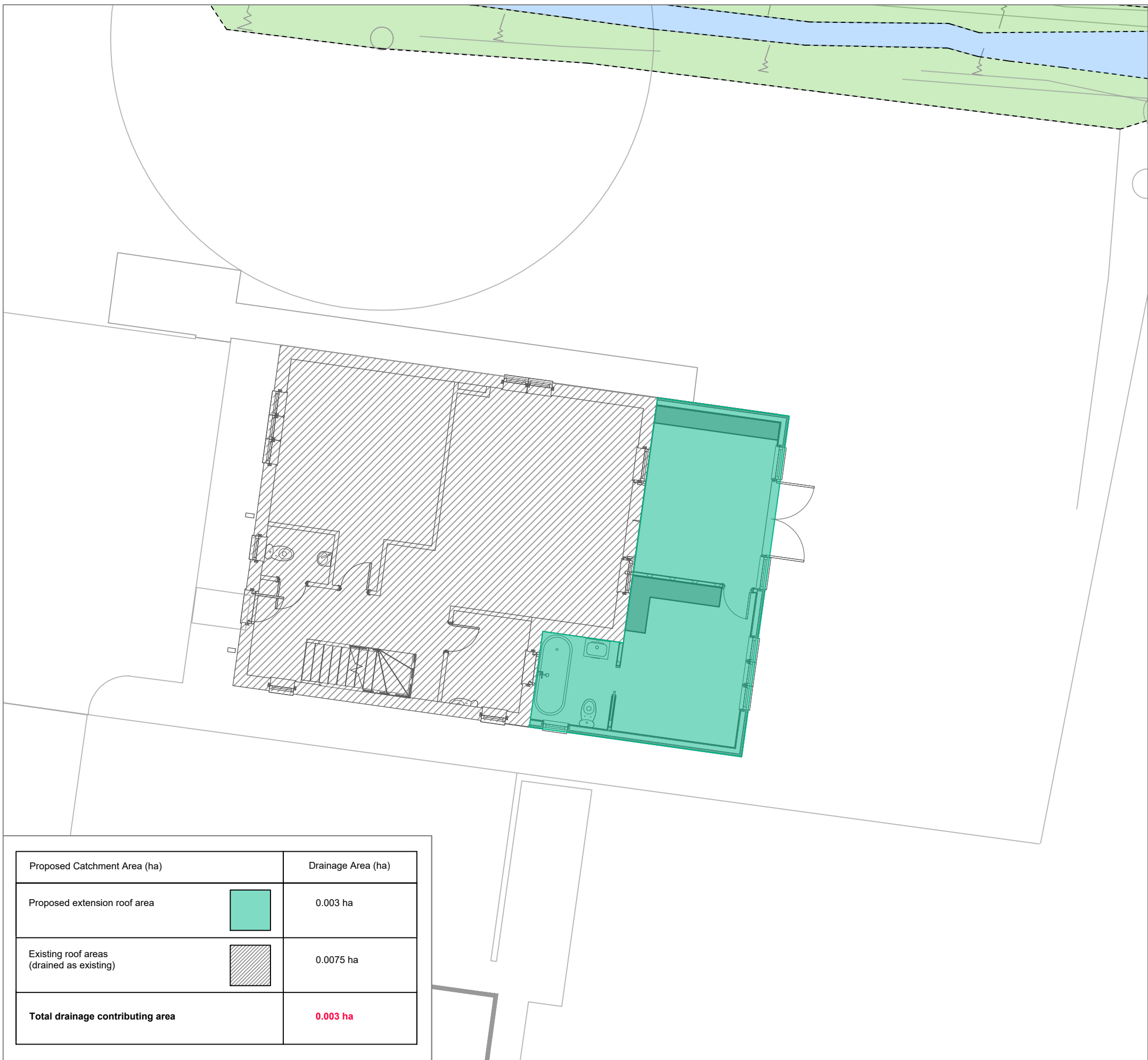
- ▽ Groundwater depth first encountered
a▽ Morning water level
p▽ Evening water level

- == Casing depth
— Borehole depth
w Water sample

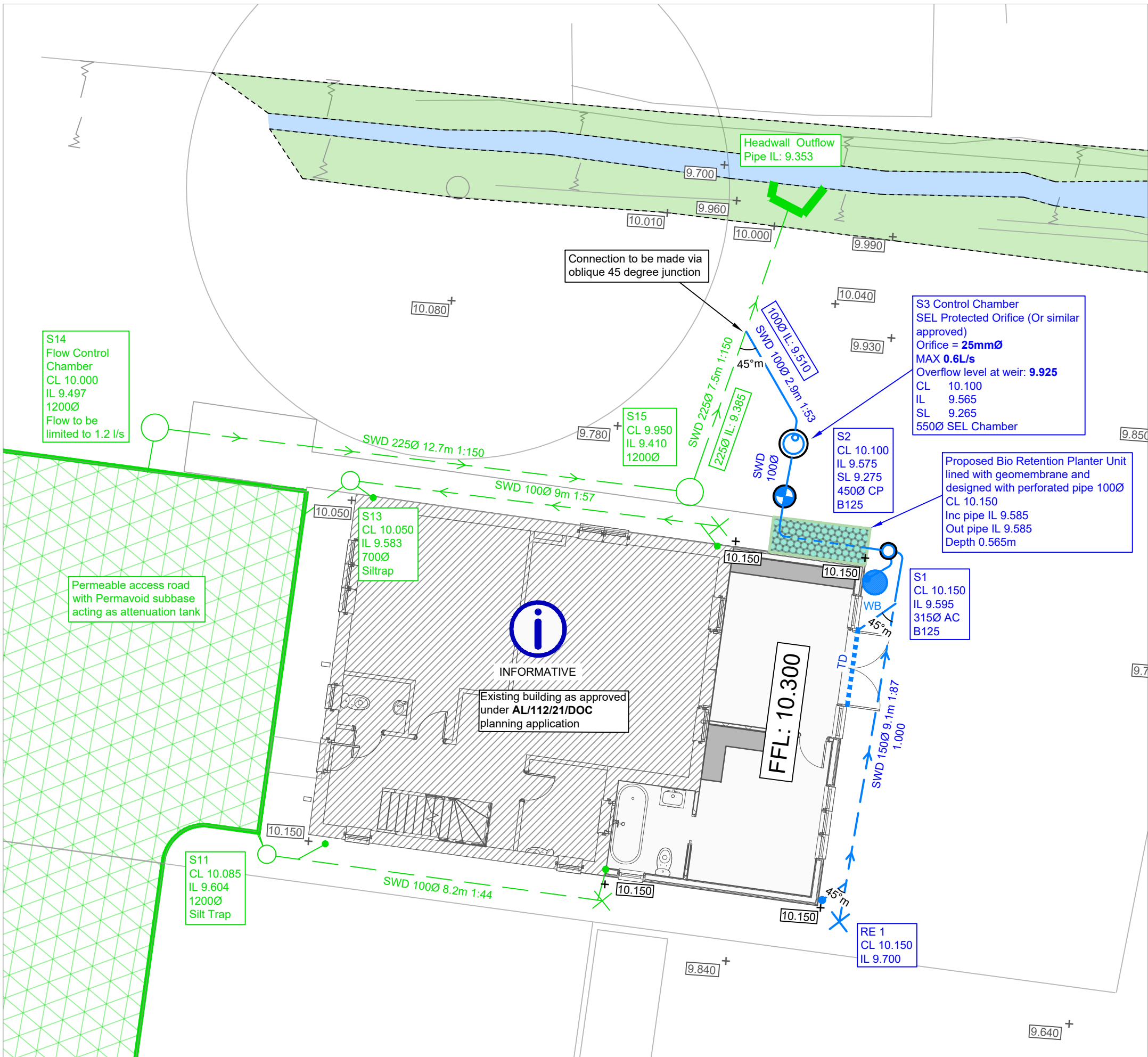
- U, sample; solid ornament shows fraction recovered
• Spot disturbed sample
Bulk sample
S.P.T. Standard Penetration Test

Geological Classification	Description of Strata	Sampling	Sample Nos	Water level	Drilling and Casing progress
	Soil				
	dry brown silt				
Brickearth	brown silty clay	0.8	CBSS 175		
	brown pebbly silty clay	1.8-1.9	CBSS 176		
Clay	clayey gravel 20 cgr 30 fgr 10 cs 40 fines	2.2 to 3.0	CCB 095		
Marine Sand + gravel	Sandy gravel <20 cgr + a few lge flint cobbles >10 fgr 60 f.s. (q/s) 10 fines	3.0 to 4.0	CCB 096	▽ 3.0	
	q/s sand >95% f.s. - no coarser material seen <5% fines (silty) ? some ms.	4.0 to 5.0	CCB 097		
	Sandy gravel 30 cgr 30 fgr 10 cs 30 f/ms	5.0 to 6.0	CCB 098		
London Clay	dark olive grey stiff clay with a few flint pebbles		CBSS 177		end 6.8

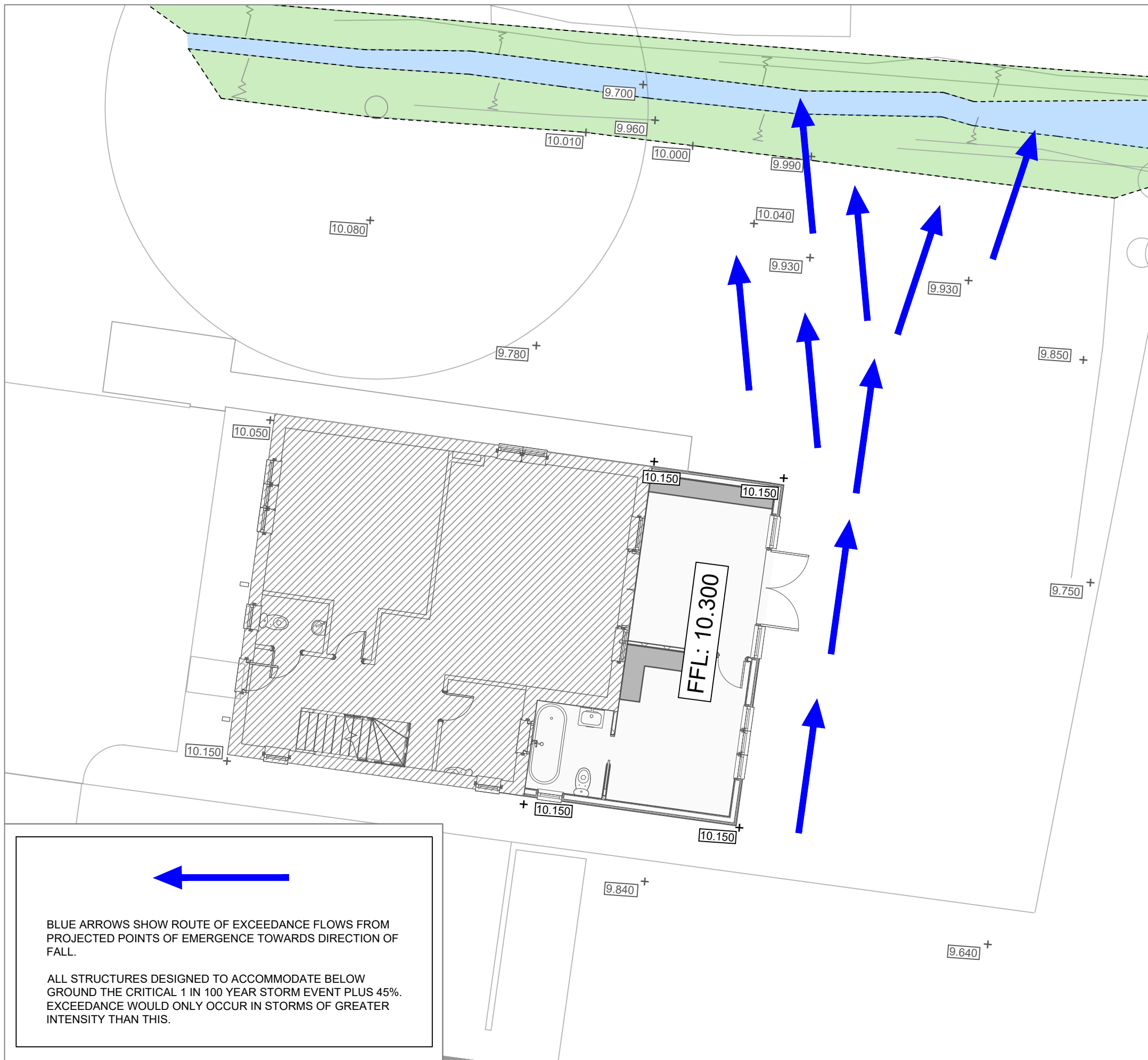
7.3 **Appendix C – Proposed Drainage Strategy, Proposed Typical Construction Details and Hydraulic Calculations**



CONTRIBUTING AREA PLAN (scale 1:100)



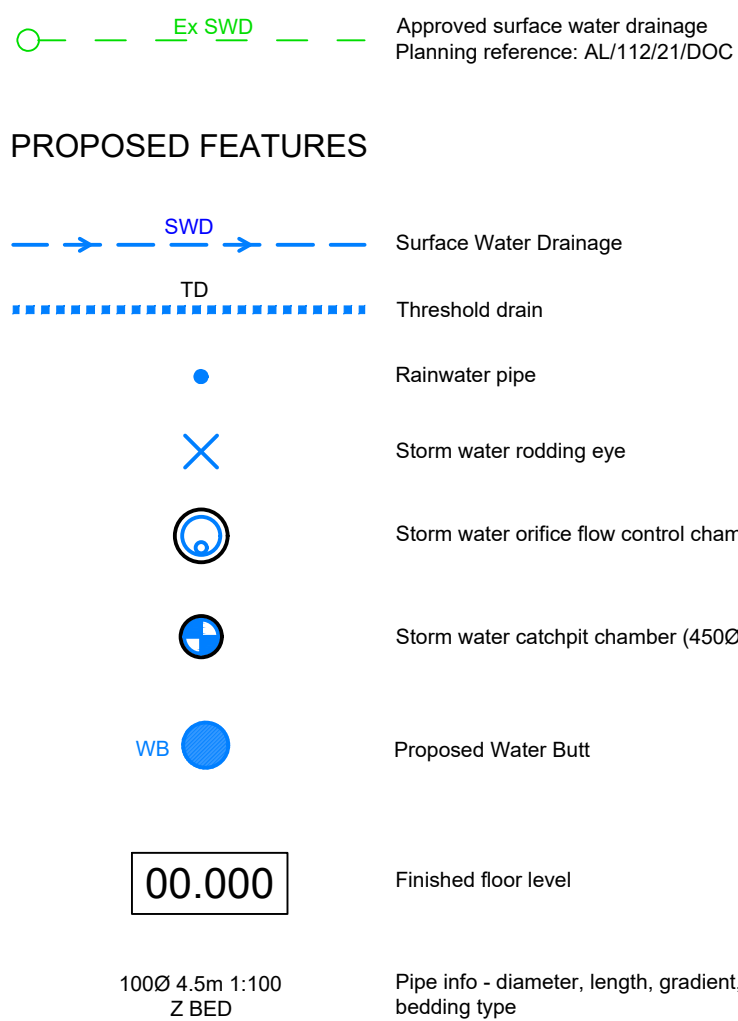
PROPOSED DRAINAGE STRATEGY (scale 1:100)



EXCEEDANCE FLOW ROUTES (scale 1:100)

DRAINAGE LEGEND

EXISTING FEATURES



ABBREVIATIONS

MH	- MANHOLE
IC	- INSPECTION CHAMBER
AC	- ACCESS CHAMBER
CP	- CATCHPIT
BC	- BRAKE CHAMBER
RE	- RODDING EYE
IL	- INVERT LEVEL
SL	- SUMP LEVEL
RA	- RESTRICTED ACCESS COVER
CL	- COVER LEVEL
TL	- TOP OF CELLULAR SA
BL	- BASE OF CELLULAR SA
FL	- FORMATION LEVEL

Site Specific Notes

- Proposed surface water drainage strategy has been designed based on available data from the BGS Map Viewer, information obtained from the Arun District Council planning portal, and the existing drainage design approved under application reference: AL/112/21/DOC
- All storage volumes and flow controls from the extension area are designed to the critical 1 in 100 year storm event plus an allowance of 45% for the predicted effects of climate change + 10% allowance for urban creep.
- Surface water flow discharge rate from the extension area has been restricted to 0.6l/s.

DESIGN SUBJECT TO THE APPROVAL OF:
PLANNING AUTHORITY
BUILDING CONTROL
WATER AUTHORITY

DESIGN SUBJECT TO THE CONFIRMATION OF:
EXTERNAL LEVELS DESIGN
GROUNDWATER DEPTH
ORDINARY WATERCOURSE APPROVAL
LOCATION AND DEPTH OF EXISTING UTILITIES

- STANDARD DRAINAGE NOTES
- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
 - ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
 - ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
 - BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING SPURS TO WHICH CONNECTIONS ARE PROPOSED. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.
 - ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT. THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE TIE-IN INVERT LEVELS TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT TO SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, IF THIS IS NOT POSSIBLE INFORM THE ENGINEER IMMEDIATELY.
 - COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
 - ALL UN-REFERENCED PIPES ARE TO BE 100mm DIA.
 - ALL PIPES TO BE ADOPTED, OR CONNECTING TO ADOPTED SEWERS, TO BE VITRIFIED CLAY TO BS EN 295 AND BS65 (SWIS ONLY), OR CONCRETE PIPES TO BE EN 1916 AND BS5911:PART 1.
 - ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
 - ALL ADOPTABLE SEWERS SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATION LAID DOWN IN 'SEWERS FOR ADOPTION' 6th EDITION, WITH A VIEW TO ADOPTION UPON COMPLETION OF WORKS.
 - ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
 - THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWINGS CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
 - STUB CONNECTIONS TO ADOPTABLE MANHOLES SHALL BE MADE FROM VITRIFIED CLAY AND CONSIST OF TWO ROCKER PIPES LAID AT THE SAME GRADIENT AS THE UP OR DOWNSTREAM PIPE.
 - IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. SUB SOIL DRAINS ARE TO BE DIVERTED AROUND NEW WORKS AND CONNECTED INTO THE SURFACE WATER.
 - NO PRIVATE AREAS ARE TO DRAIN ONTO ADOPTABLE AREAS AND VICE VERSA.
 - ALL EXISTING MANHOLE COVER'S, GULLIES, ETC. ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE LOCATION AND DEPTH OF ALL EXISTING SERVICES AND UTILITIES THAT MAY BE PRESENT.
 - UPON COMPLETION BUT PRIOR TO HANDOVER, CONTRACTOR TO CARRY OUT FULL CCTV DRAINAGE SYSTEM WHICH IS TO BE REVIEWED BY ENGINEER TO ENSURE SATISFACTORY INSTALLATION.
 - PROPRIETARY PRODUCTS TO BE INSTALLED IN FULL ACCORDANCE WITH MANUFACTURER'S GUIDANCE.
 - MANHOLE AND CHAMBER COVER GRADES:
 - 'A15' IN ALL LANDSCAPED AREAS AND ON FOOTPATHS
 - 'B125' IN ALL DRIVEWAYS
 - 'C250' IN PRIVATE PARKING AREAS
 - 'D400' IN CARRIAGEWAY/ACCESS ROAD

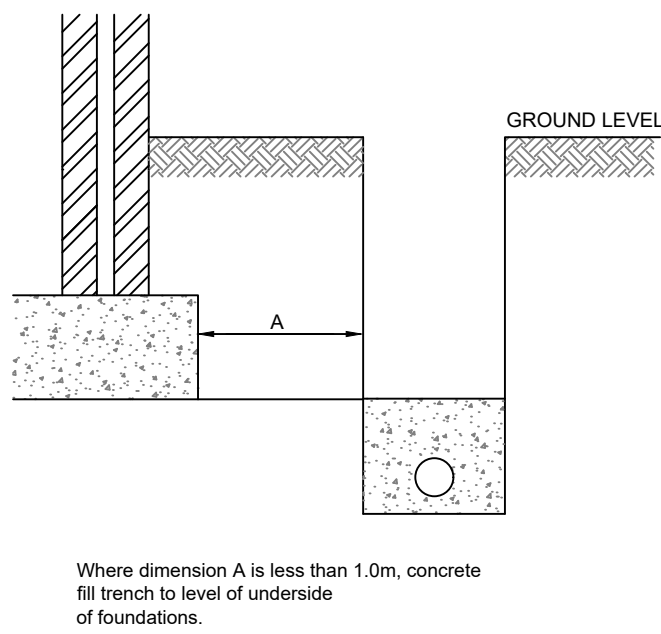
Prefix to drawing numbers shall signify the following:-

PL = PLANNING	Shall not be used for contract or construction purposes
P = PRELIMINARY	Shall not be used for contract or construction purposes
T = TENDER	Shall not be used for construction purposes
C = CONSTRUCTION	These are the only drawings that shall be used for construction purposes
R = RECORD	Record of actual completed work

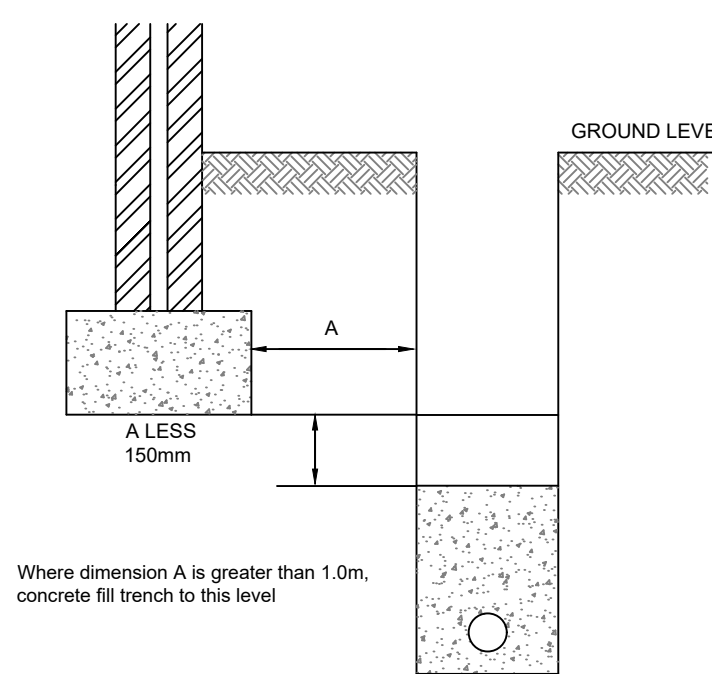
P2	04.09.25	UPDATED TO ADC COMMENTS	MR	CS	CS
P1	24.07.25	UPDATED TO ADC COMMENTS	MR	CS	CS
PL-	10.04.25	PRELIMINARY ISSUE	MR	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

 cgscivils Consulting Civil Engineers					
CLIENT JOHN WILSON					
ARCHITECT PARKERS EXECUTIVE DESIGN					
JOB TITLE 8 AUTUMN GATE CHICHESTER, PO20 3TE					
DRAWING TITLE PROPOSED DRAINAGE STRATEGY					
DRAWN MR		ENGINEER CS		CHECKED CS	APPROVED CS
DATE APRIL 2025			SCALE @ A1 1:100		
JOB No. C3621		STATUS PL	DRAWING No. 101		REV. P2

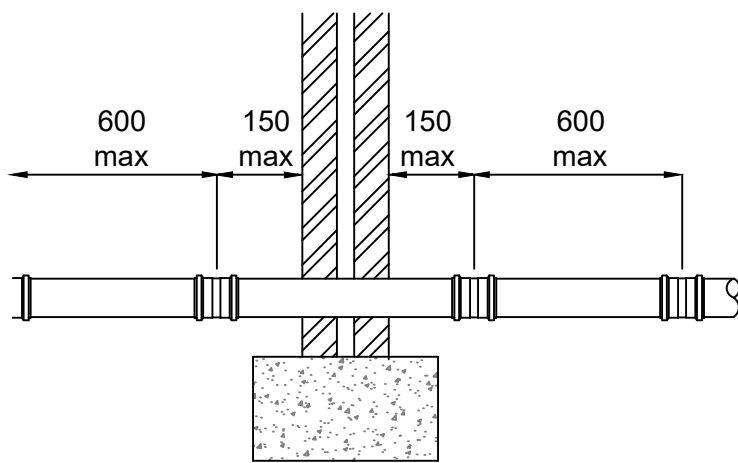
FOR PLANNING ONLY



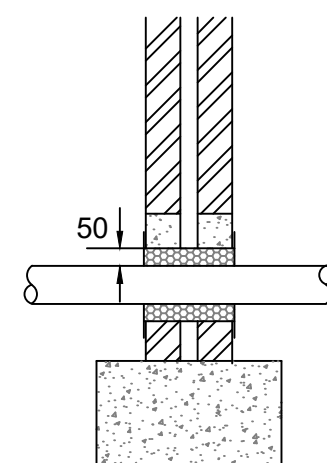
Pipes near buildings
(not to scale)



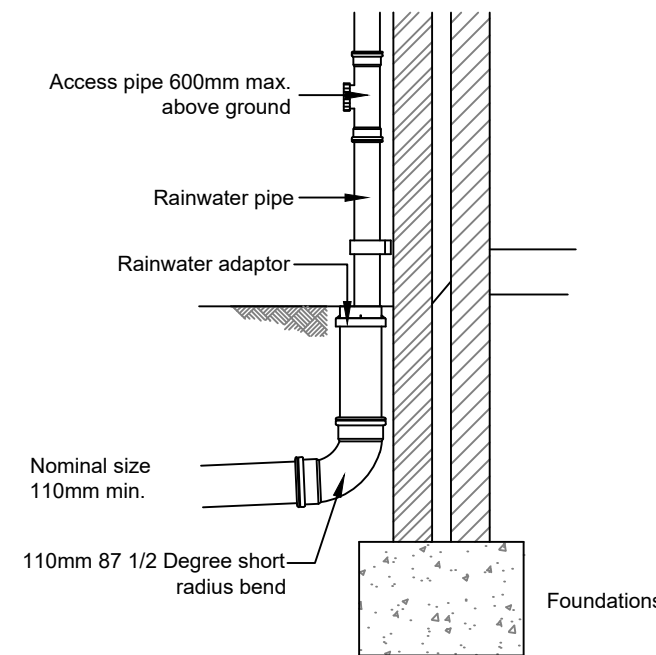
Pipes near buildings
(not to scale)



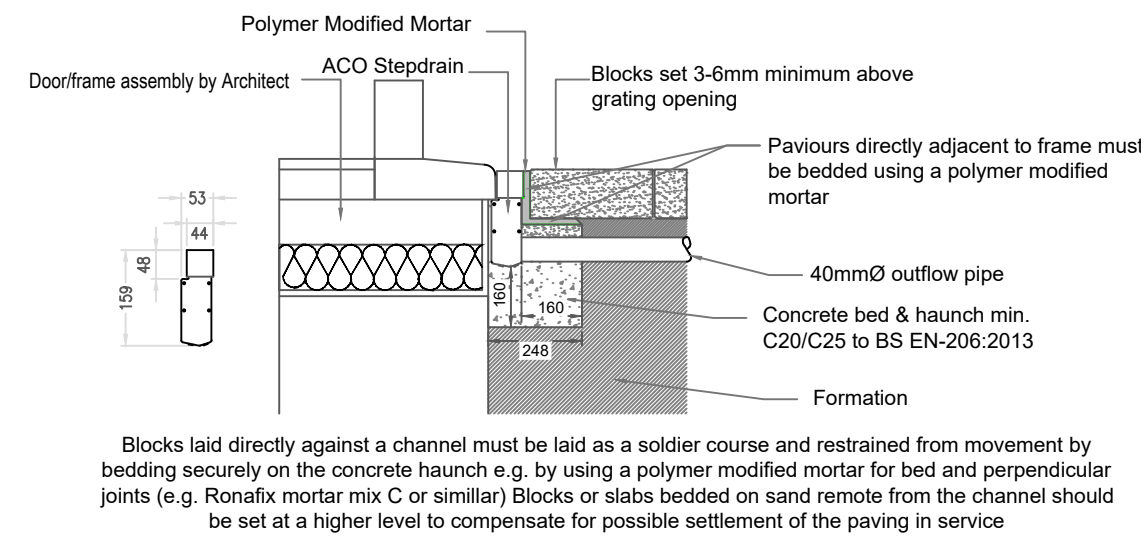
Pipes through wall detail
(not to scale)



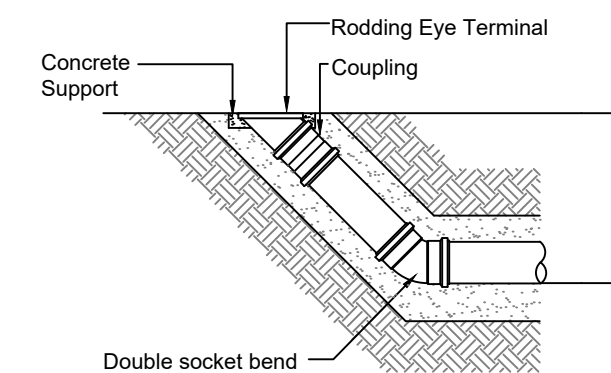
Pipes through wall with lintel detail
(not to scale)



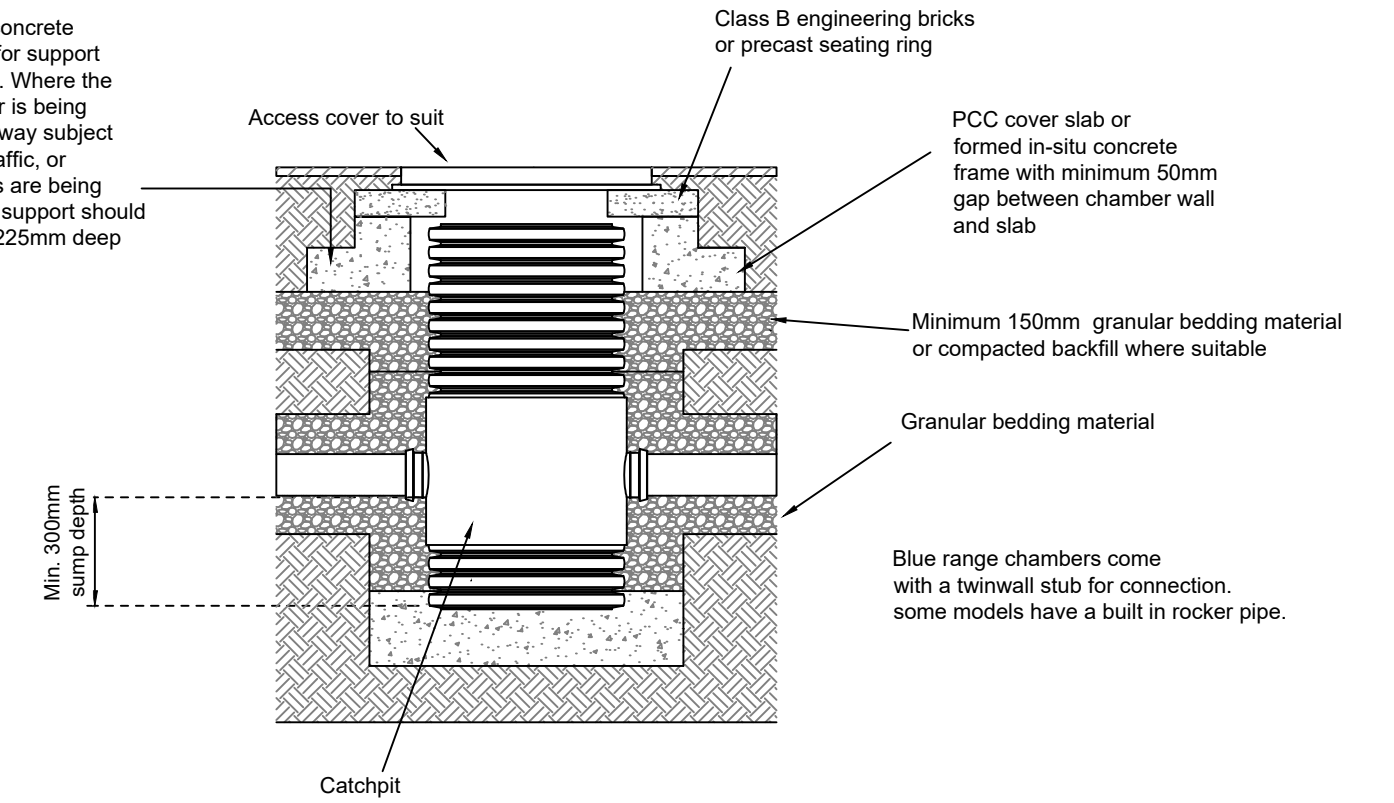
External Rainwater Pipe to Drain
(scale 1:20)



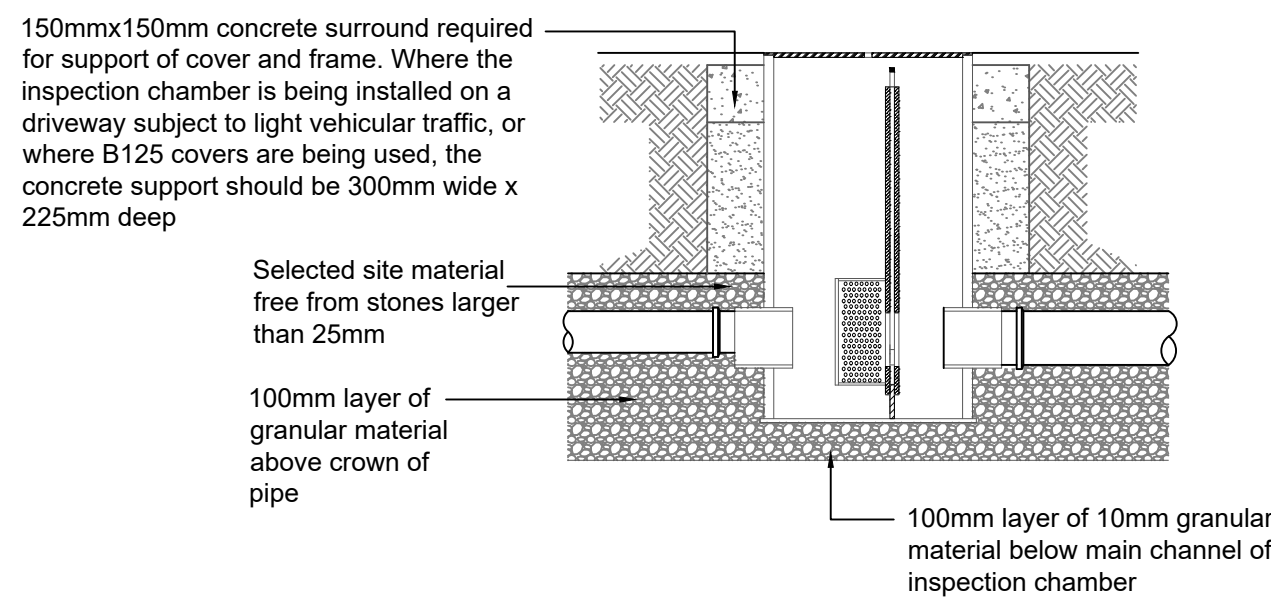
ACO Threshold Drain
(scale 1:20)



Rodding eye detail
(scale 1:20)



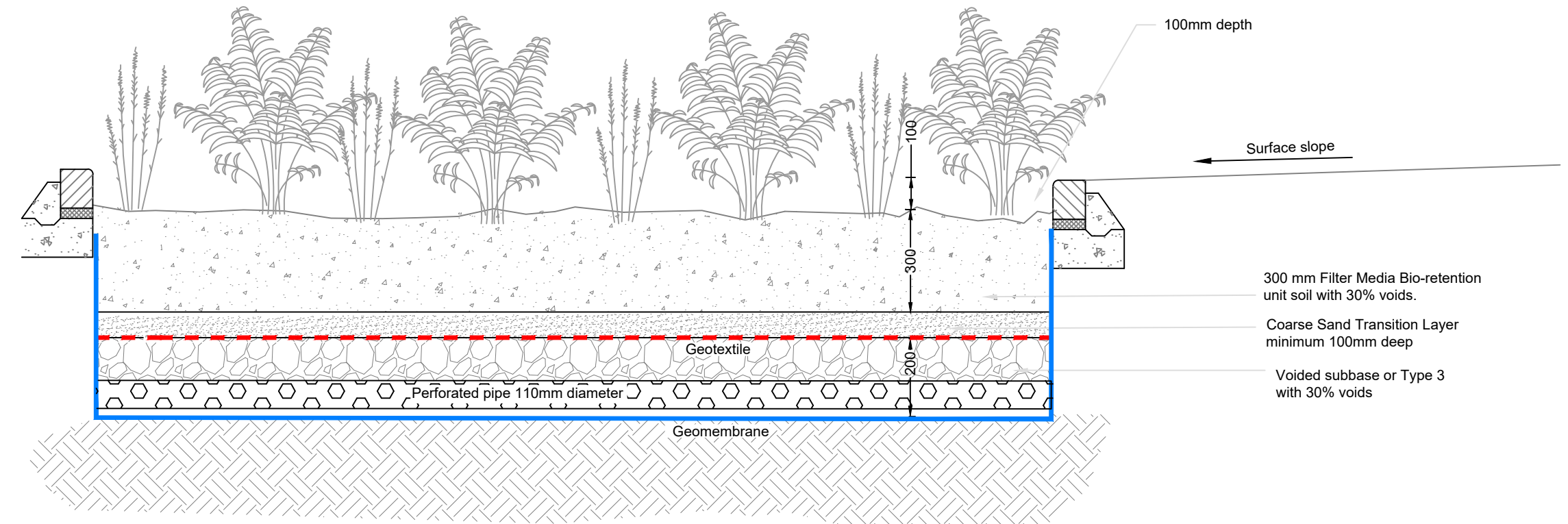
450mmØ/600mmØ Turtle Enviro Silt Trap Detail
(scale 1:20)



Sel Controflow 500 Orifice Chamber

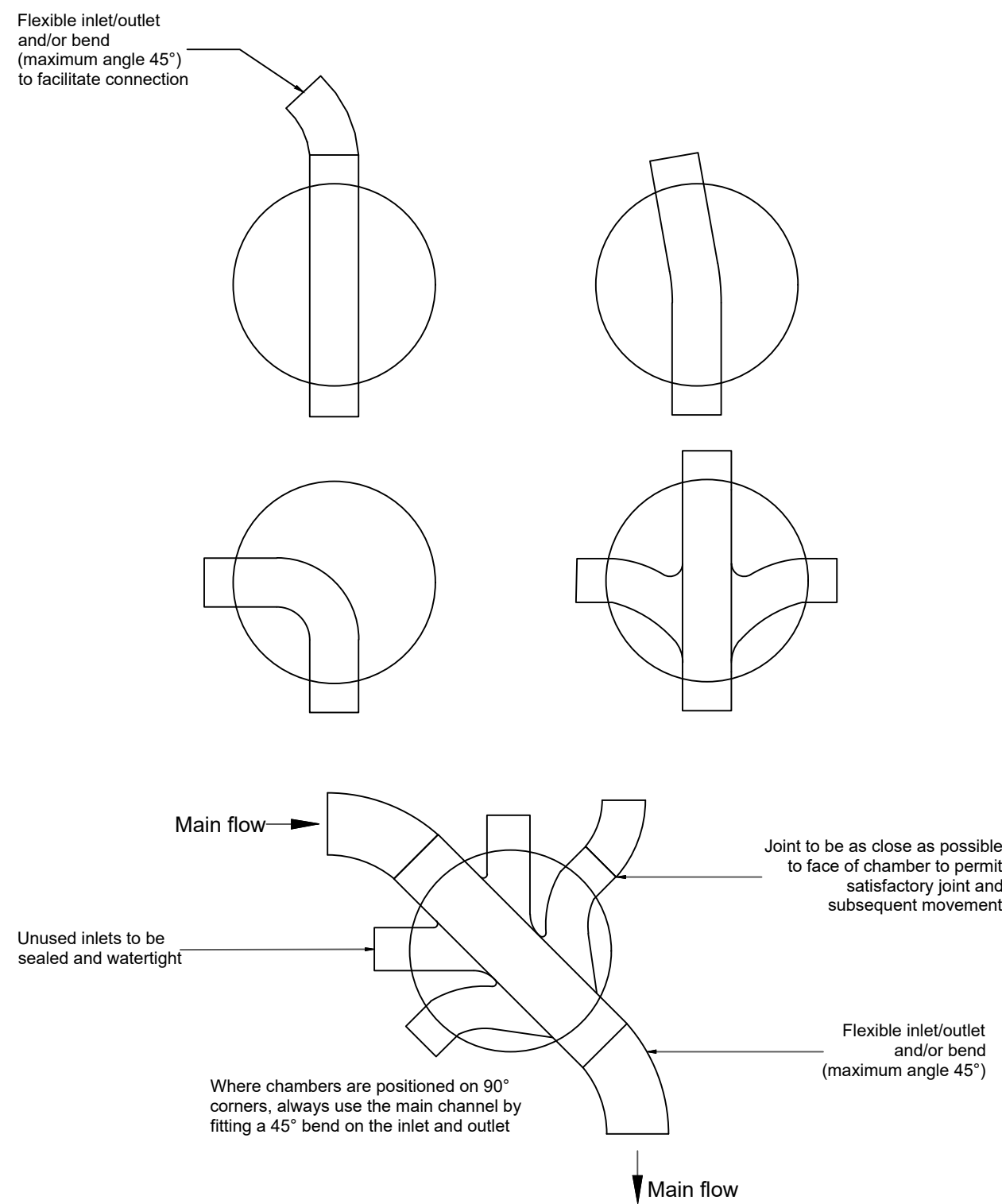
SEL Environmental LTD
Phone: 01254 589987
Email: sales@selenvironmental.com

(scale 1:20)



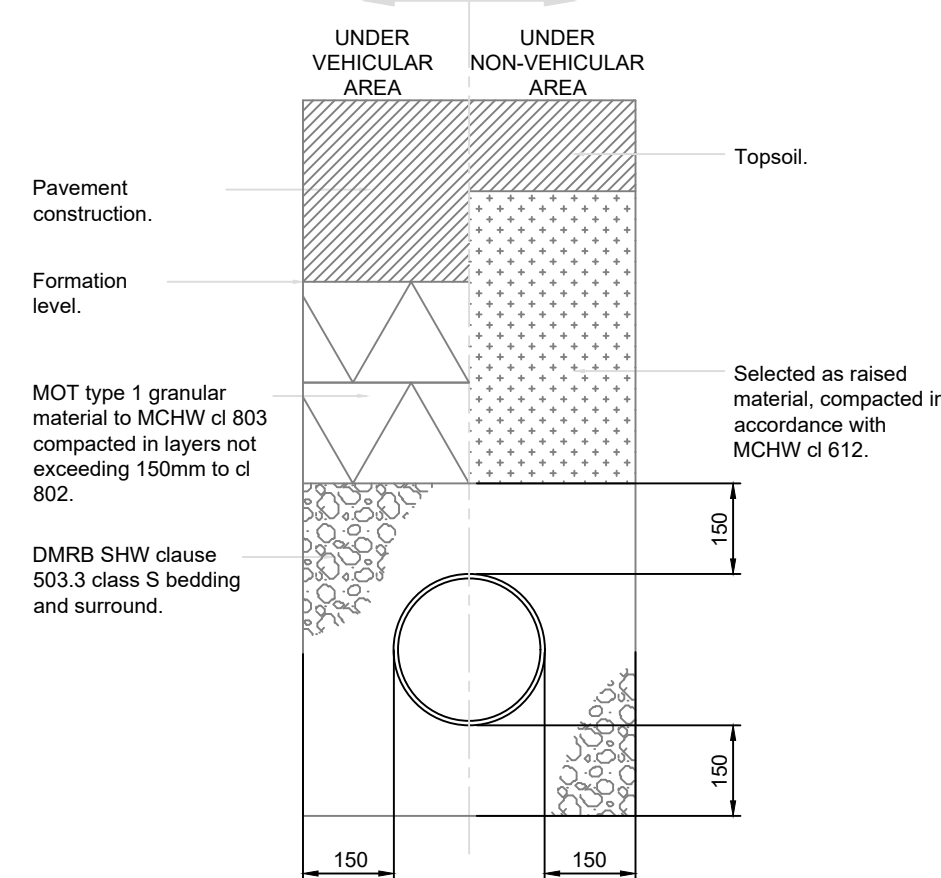
Typical BIO Retention Planter Detail
(not to scale)

FIGURE B 22
TYPICAL BASE LAYOUTS FOR TYPE D CHAMBERS



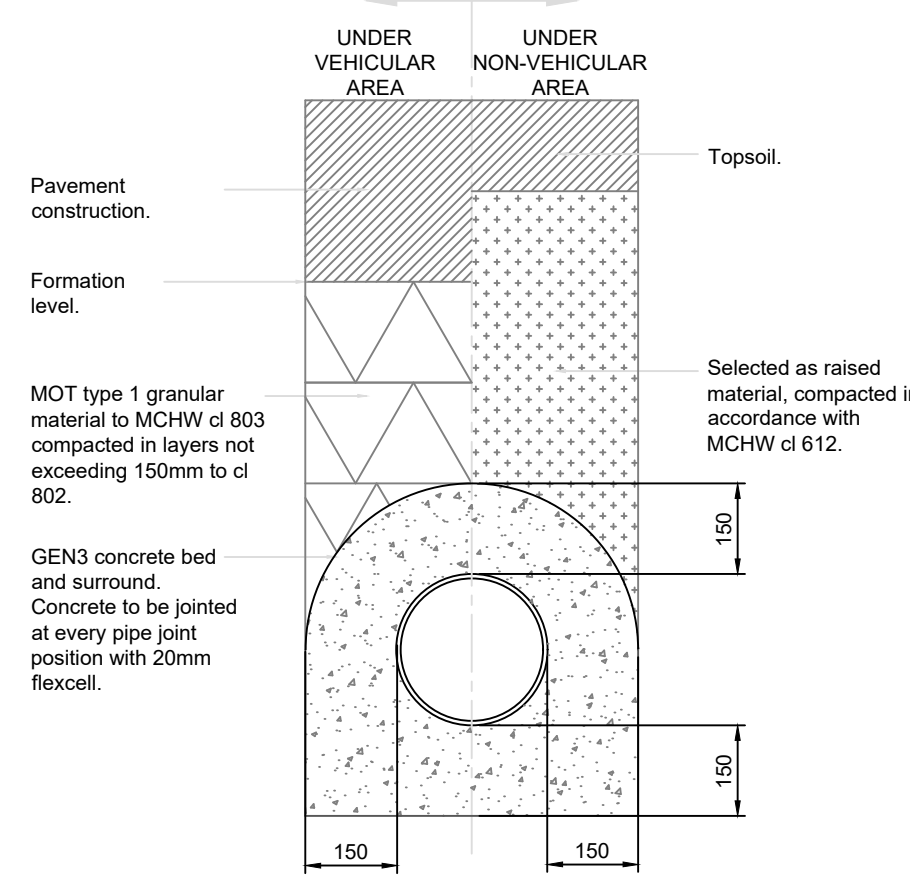
Note: Where a bend is used immediately outside the manhole, this may be used as the rocker pipe

Not to scale



Class S granular pipe bed and surround

To be used for plastic, vitrified and concrete pipework where cover to crown is greater than 900mm.



Class Z granular pipe bed and surround

To be used for plastic, vitrified and concrete pipework where cover to crown is less than 900mm.

Pipe Bedding Details
(scale 1:20)

Prefixed to drawing numbers shall signify the following:-

PL = PLANNING	Shall not be used for contract or construction purposes
P = PRELIMINARY	Shall not be used for contract or construction purposes
T = TENDER	Shall not be used for construction purposes
C = CONSTRUCTION	These are the only drawings that shall be used for construction purposes
R = RECORD	Record of actual completed work

P2	04.09.25	UPDATED TO ADC COMMENTS	MR	CS	CS
P1	24.07.25	UPDATED TO ADC COMMENTS	MR	CS	CS
PL	10.04.25	PRELIMINARY ISSUE	MR	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgs civils Consulting Civil Engineers				
CLIENT JOHN WILSON				
ARCHITECT PARKERS EXECUTIVE DESIGN				
JOB TITLE 8 AUTUMN GATE CHICHESTER, PO20 3TE				
DRAWING TITLE PROPOSED TYPICAL CONSTRUCTION DETAILS				
DRAWN MR	ENGINEER CS	CHECKED CS	APPROVED CS	
DATE APRIL 2025	SCALE @ A1 AS SHOWN			
JOB No. C3621	STATUS PL	DRAWING No. 201		REV. P1

FOR PLANNING ONLY

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	4.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	75.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S3	0.000	4.00	10.100	550	75.386	31.817	0.535
225 Drain			9.900	200	74.313	36.047	0.390
RE1		4.00	10.150	180	77.734	20.048	0.450
S1	0.003	4.00	10.150	315	78.648	29.411	0.555
BioRetention	0.000	4.00	10.150	450	75.407	29.451	0.565
S2			10.100	450	75.364	30.694	0.525

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.004	S3	225 Drain	2.900	0.600	9.565	9.510	0.055	52.7	100	4.29	0.0
1.000	RE1	S1	9.100	0.600	9.700	9.595	0.105	86.7	100	4.18	56.7
1.001	S1	BioRetention	1.000	0.600	9.595	9.585	0.010	100.0	100	4.21	56.7
1.002	BioRetention	S2	1.000	0.600	9.585	9.575	0.010	100.0	100	4.23	56.7
1.003	S2	S3	1.000	0.600	9.575	9.565	0.010	100.0	100	4.25	56.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.004	1.063	8.4	0.0	0.435	0.290	0.003	0.0	0	0.000
1.000	0.827	6.5	0.0	0.350	0.455	0.000	0.0	0	0.000
1.001	0.769	6.0	0.5	0.455	0.465	0.003	0.0	20	0.468
1.002	0.769	6.0	0.5	0.465	0.425	0.003	0.0	20	0.468
1.003	0.769	6.0	0.5	0.425	0.435	0.003	0.0	20	0.468

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.004	2.900	52.7	100	Circular	10.100	9.565	0.435	9.900	9.510	0.290
1.000	9.100	86.7	100	Circular	10.150	9.700	0.350	10.150	9.595	0.455
1.001	1.000	100.0	100	Circular	10.150	9.595	0.455	10.150	9.585	0.465
1.002	1.000	100.0	100	Circular	10.150	9.585	0.465	10.100	9.575	0.425

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	S3	550	Manhole	Adoptable	225 Drain	200	Manhole	Adoptable
1.000	RE1	180	Manhole	Adoptable	S1	315	Manhole	Adoptable
1.001	S1	315	Manhole	Adoptable	BioRetention	450	Manhole	Adoptable
1.002	BioRetention	450	Manhole	Adoptable	S2	450	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.003	1.000	100.0	100	Circular	10.100	9.575	0.425	10.100	9.565	0.435

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.003	S2	450	Manhole	Adoptable	S3	550	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S3	75.386	31.817	10.100	0.535	550	0  1	1	1.003	9.565	100
						0  1	0	1.004	9.565	100
225 Drain	74.313	36.047	9.900	0.390	200	0  1	1	1.004	9.510	100
RE1	77.734	20.048	10.150	0.450	180	0  1	0	1.000	9.700	100
S1	78.648	29.411	10.150	0.555	315	0  1	1	1.000	9.595	100
						0  1	0	1.001	9.595	100
BioRetention	75.407	29.451	10.150	0.565	450	0  1	1	1.001	9.585	100
						0  1	0	1.002	9.585	100
S2	75.364	30.694	10.100	0.525	450	0  1	1	1.002	9.575	100
						0  1	0	1.003	9.575	100

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s) x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume x
Winter CV	1.000	Additional Storage (m³/ha)	0.0	

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	------

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
10	0	0	0
30	0	0	0
30	45	0	0
100	0	10	0

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	45	10	0

Node S3 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.230	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	0.6		
Invert Level (m)	9.565	Diameter (m)	0.025		

Node BioRetention Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.585	Depth (m)	0.565
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	16	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	1.000	Number Required	1
Porosity	0.30	Pit Length (m)	2.430		

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	21	9.613	0.048	0.3	0.0115	0.0000	OK
30 minute summer	225 Drain	21	9.522	0.012	0.2	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S1	11	9.617	0.022	0.5	0.0017	0.0000	OK
30 minute summer	BioRetention	21	9.614	0.029	0.5	0.0255	0.0000	OK
30 minute summer	S2	21	9.614	0.039	0.4	0.0061	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.2	0.465	0.030	0.0015	0.3
15 minute summer	RE1	1.000	S1	0.0	0.000	0.000	0.0059	
15 minute summer	S1	1.001	BioRetention	0.5	0.425	0.082	0.0014	
30 minute summer	BioRetention	1.002	S2	0.4	0.393	0.069	0.0023	
30 minute summer	S2	1.003	S3	0.3	0.368	0.052	0.0033	

Results for 10 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.650	0.085	0.5	0.0201	0.0000	OK
30 minute summer	225 Drain	22	9.524	0.014	0.3	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute summer	S1	22	9.650	0.055	0.9	0.0043	0.0000	OK
30 minute summer	BioRetention	22	9.650	0.065	0.8	0.0574	0.0000	OK
30 minute summer	S2	22	9.650	0.075	0.6	0.0119	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.3	0.512	0.041	0.0020	0.5
15 minute summer	RE1	1.000	S1	0.0	0.000	0.000	0.0174	
30 minute summer	S1	1.001	BioRetention	0.8	0.416	0.133	0.0049	
30 minute summer	BioRetention	1.002	S2	0.6	0.393	0.105	0.0058	
30 minute summer	S2	1.003	S3	0.5	0.368	0.077	0.0067	

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.674	0.109	0.5	0.0259	0.0000	SURCHARGED
30 minute summer	225 Drain	22	9.525	0.015	0.4	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute summer	S1	22	9.674	0.079	1.2	0.0062	0.0000	OK
30 minute summer	BioRetention	22	9.674	0.089	1.0	0.0792	0.0000	OK
30 minute summer	S2	22	9.674	0.099	0.8	0.0158	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.4	0.534	0.048	0.0022	0.7
15 minute summer	RE1	1.000	S1	0.0	0.000	0.000	0.0279	
30 minute summer	S1	1.001	BioRetention	1.0	0.412	0.164	0.0070	
30 minute summer	BioRetention	1.002	S2	0.8	0.393	0.128	0.0076	
30 minute summer	S2	1.003	S3	0.5	0.408	0.091	0.0078	

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.717	0.152	0.7	0.0363	0.0000	SURCHARGED
30 minute summer	225 Drain	23	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute summer	RE1	22	9.718	0.018	0.1	0.0004	0.0000	OK
30 minute summer	S1	22	9.718	0.123	1.7	0.0096	0.0000	SURCHARGED
30 minute summer	BioRetention	22	9.718	0.133	1.4	0.1179	0.0000	SURCHARGED
30 minute summer	S2	22	9.718	0.143	1.0	0.0227	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.5	0.562	0.057	0.0025	1.0
30 minute summer	RE1	1.000	S1	-0.1	-0.027	-0.019	0.0398	
30 minute summer	S1	1.001	BioRetention	1.4	0.421	0.227	0.0078	
30 minute summer	BioRetention	1.002	S2	1.0	0.462	0.172	0.0078	
30 minute summer	S2	1.003	S3	0.7	0.475	0.119	0.0078	

Results for 100 year +10% A Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.715	0.150	0.7	0.0358	0.0000	SURCHARGED
30 minute summer	225 Drain	23	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute summer	RE1	23	9.715	0.015	0.1	0.0004	0.0000	OK
30 minute summer	S1	22	9.716	0.121	1.7	0.0094	0.0000	SURCHARGED
30 minute summer	BioRetention	22	9.716	0.131	1.4	0.1160	0.0000	SURCHARGED
30 minute summer	S2	22	9.716	0.141	1.0	0.0223	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.5	0.560	0.057	0.0025	1.0
30 minute summer	RE1	1.000	S1	-0.1	-0.027	-0.018	0.0391	
30 minute summer	S1	1.001	BioRetention	1.4	0.421	0.227	0.0078	
30 minute summer	BioRetention	1.002	S2	1.0	0.462	0.172	0.0078	
30 minute summer	S2	1.003	S3	0.7	0.475	0.119	0.0078	

Results for 100 year +45% CC +10% A Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	23	9.776	0.211	0.9	0.0502	0.0000	SURCHARGED
30 minute summer	225 Drain	24	9.528	0.018	0.6	0.0000	0.0000	OK
30 minute summer	RE1	23	9.777	0.077	0.4	0.0019	0.0000	OK
30 minute summer	S1	23	9.777	0.182	2.4	0.0142	0.0000	SURCHARGED
30 minute summer	BioRetention	23	9.776	0.191	1.8	0.1700	0.0000	SURCHARGED
30 minute summer	S2	23	9.776	0.201	1.3	0.0320	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S3	1.004	225 Drain	0.6	0.590	0.069	0.0028	1.4
30 minute summer	RE1	1.000	S1	-0.4	-0.089	-0.064	0.0649	
30 minute summer	S1	1.001	BioRetention	1.8	0.458	0.298	0.0078	
30 minute summer	BioRetention	1.002	S2	1.3	0.495	0.220	0.0078	
30 minute summer	S2	1.003	S3	0.9	0.521	0.145	0.0078	

Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	13	9.613	0.048	0.4	0.0115	0.0000	OK
15 minute summer	225 Drain	13	9.522	0.012	0.2	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S1	11	9.617	0.022	0.5	0.0017	0.0000	OK
15 minute summer	BioRetention	13	9.613	0.028	0.5	0.0252	0.0000	OK
15 minute summer	S2	13	9.613	0.038	0.5	0.0061	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.2
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	13	9.611	0.046	0.3	0.0109	0.0000	OK
15 minute winter	225 Drain	13	9.522	0.012	0.2	0.0000	0.0000	OK
15 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S1	10	9.617	0.022	0.5	0.0017	0.0000	OK
15 minute winter	BioRetention	13	9.611	0.026	0.5	0.0231	0.0000	OK
15 minute winter	S2	13	9.611	0.036	0.5	0.0057	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.2
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.3	

Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	21	9.613	0.048	0.3	0.0115	0.0000	OK
30 minute summer	225 Drain	21	9.522	0.012	0.2	0.0000	0.0000	OK
30 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute summer	S1	17	9.616	0.021	0.5	0.0016	0.0000	OK
30 minute summer	BioRetention	21	9.614	0.029	0.5	0.0255	0.0000	OK
30 minute summer	S2	21	9.614	0.039	0.4	0.0061	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.3
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	21	9.610	0.045	0.3	0.0108	0.0000	OK
30 minute winter	225 Drain	21	9.522	0.012	0.2	0.0000	0.0000	OK
30 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute winter	S1	18	9.615	0.020	0.4	0.0015	0.0000	OK
30 minute winter	BioRetention	21	9.611	0.026	0.4	0.0228	0.0000	OK
30 minute winter	S2	21	9.611	0.036	0.4	0.0057	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.3
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	37	9.607	0.042	0.2	0.0100	0.0000	OK
60 minute summer	225 Drain	37	9.521	0.011	0.2	0.0000	0.0000	OK
60 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute summer	S1	35	9.612	0.017	0.3	0.0013	0.0000	OK
60 minute summer	BioRetention	37	9.607	0.022	0.3	0.0195	0.0000	OK
60 minute summer	S2	37	9.607	0.032	0.3	0.0051	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.3
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.2	

Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	40	9.598	0.033	0.2	0.0079	0.0000	OK
60 minute winter	225 Drain	40	9.520	0.010	0.2	0.0000	0.0000	OK
60 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute winter	S1	39	9.608	0.013	0.2	0.0011	0.0000	OK
60 minute winter	BioRetention	39	9.599	0.014	0.2	0.0123	0.0000	OK
60 minute winter	S2	40	9.598	0.023	0.2	0.0037	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.3
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	70	9.601	0.036	0.2	0.0086	0.0000	OK
120 minute summer	225 Drain	70	9.521	0.011	0.2	0.0000	0.0000	OK
120 minute summer	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute summer	S1	62	9.611	0.016	0.3	0.0012	0.0000	OK
120 minute summer	BioRetention	66	9.601	0.016	0.3	0.0143	0.0000	OK
120 minute summer	S2	70	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.4
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 2 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	68	9.598	0.033	0.2	0.0078	0.0000	OK
120 minute winter	225 Drain	70	9.520	0.010	0.2	0.0000	0.0000	OK
120 minute winter	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute winter	S1	68	9.608	0.013	0.2	0.0011	0.0000	OK
120 minute winter	BioRetention	68	9.599	0.014	0.2	0.0122	0.0000	OK
120 minute winter	S2	68	9.598	0.023	0.2	0.0037	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.4
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	96	9.597	0.032	0.2	0.0075	0.0000	OK
180 minute summer	225 Drain	96	9.520	0.010	0.2	0.0000	0.0000	OK
180 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute summer	S1	92	9.608	0.013	0.2	0.0010	0.0000	OK
180 minute summer	BioRetention	92	9.598	0.013	0.2	0.0119	0.0000	OK
180 minute summer	S2	96	9.597	0.022	0.2	0.0035	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.4
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 2 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	112	9.586	0.021	0.1	0.0050	0.0000	OK
180 minute winter	225 Drain	100	9.518	0.008	0.1	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	76	9.604	0.009	0.1	0.0007	0.0000	OK
180 minute winter	BioRetention	76	9.594	0.009	0.1	0.0084	0.0000	OK
180 minute winter	S2	104	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.4
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	128	9.594	0.029	0.2	0.0070	0.0000	OK
240 minute summer	225 Drain	128	9.520	0.010	0.2	0.0000	0.0000	OK
240 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute summer	S1	124	9.608	0.013	0.2	0.0010	0.0000	OK
240 minute summer	BioRetention	124	9.598	0.013	0.2	0.0119	0.0000	OK
240 minute summer	S2	128	9.594	0.019	0.2	0.0031	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.4
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	136	9.586	0.021	0.1	0.0050	0.0000	OK
240 minute winter	225 Drain	152	9.518	0.008	0.1	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	100	9.604	0.009	0.1	0.0007	0.0000	OK
240 minute winter	BioRetention	100	9.594	0.009	0.1	0.0084	0.0000	OK
240 minute winter	S2	156	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.5
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	216	9.586	0.021	0.1	0.0050	0.0000	OK
360 minute summer	225 Drain	192	9.518	0.008	0.1	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	168	9.604	0.009	0.1	0.0007	0.0000	OK
360 minute summer	BioRetention	168	9.594	0.009	0.1	0.0084	0.0000	OK
360 minute summer	S2	208	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.4
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	208	9.586	0.021	0.1	0.0050	0.0000	OK
360 minute winter	225 Drain	184	9.518	0.008	0.1	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	160	9.604	0.009	0.1	0.0007	0.0000	OK
360 minute winter	BioRetention	160	9.594	0.009	0.1	0.0084	0.0000	OK
360 minute winter	S2	200	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.5
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	272	9.586	0.021	0.1	0.0050	0.0000	OK
480 minute summer	225 Drain	248	9.518	0.008	0.1	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	224	9.604	0.009	0.1	0.0007	0.0000	OK
480 minute summer	BioRetention	224	9.594	0.009	0.1	0.0084	0.0000	OK
480 minute summer	S2	264	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.5
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	264	9.586	0.021	0.1	0.0050	0.0000	OK
480 minute winter	225 Drain	240	9.518	0.008	0.1	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	216	9.604	0.009	0.1	0.0007	0.0000	OK
480 minute winter	BioRetention	216	9.594	0.009	0.1	0.0084	0.0000	OK
480 minute winter	S2	256	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.6
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	345	9.586	0.021	0.1	0.0050	0.0000	OK
600 minute summer	225 Drain	300	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	285	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute summer	BioRetention	285	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute summer	S2	300	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.5
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	330	9.586	0.021	0.1	0.0049	0.0000	OK
600 minute winter	225 Drain	315	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	300	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute winter	BioRetention	300	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute winter	S2	315	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.3
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	390	9.586	0.021	0.1	0.0049	0.0000	OK
720 minute summer	225 Drain	375	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	360	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute summer	BioRetention	360	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute summer	S2	375	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.3
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	15	9.565	0.000	0.0	0.0000	0.0000	OK
720 minute winter	225 Drain	15	9.510	0.000	0.0	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	15	9.595	0.000	0.0	0.0000	0.0000	OK
720 minute winter	BioRetention	15	9.585	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S2	15	9.575	0.000	0.0	0.0000	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.0	0.0
RE1	1.000	0.0	
S1	1.001	0.0	
BioRetention	1.002	0.0	
S2	1.003	0.0	

Results for 2 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	510	9.586	0.021	0.1	0.0049	0.0000	OK
960 minute summer	225 Drain	495	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	480	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute summer	BioRetention	480	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute summer	S2	495	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.3
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 2 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	15	9.565	0.000	0.0	0.0000	0.0000	OK
960 minute winter	225 Drain	15	9.510	0.000	0.0	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	15	9.595	0.000	0.0	0.0000	0.0000	OK
960 minute winter	BioRetention	15	9.585	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S2	15	9.575	0.000	0.0	0.0000	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.0	0.0
RE1	1.000	0.0	
S1	1.001	0.0	
BioRetention	1.002	0.0	
S2	1.003	0.0	

Results for 2 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	30	9.565	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	225 Drain	30	9.510	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	30	9.595	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	BioRetention	30	9.585	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S2	30	9.575	0.000	0.0	0.0000	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.0	0.0
RE1	1.000	0.0	
S1	1.001	0.0	
BioRetention	1.002	0.0	
S2	1.003	0.0	

Results for 2 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	30	9.565	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	225 Drain	30	9.510	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	30	9.595	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	BioRetention	30	9.585	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S2	30	9.575	0.000	0.0	0.0000	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.0	0.0
RE1	1.000	0.0	
S1	1.001	0.0	
BioRetention	1.002	0.0	
S2	1.003	0.0	

Results for 10 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	13	9.644	0.079	0.6	0.0188	0.0000	OK
15 minute summer	225 Drain	13	9.524	0.014	0.3	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S1	13	9.644	0.049	1.0	0.0038	0.0000	OK
15 minute summer	BioRetention	13	9.644	0.059	0.9	0.0525	0.0000	OK
15 minute summer	S2	13	9.644	0.069	0.8	0.0110	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.4
RE1	1.000	0.0	
S1	1.001	0.9	
BioRetention	1.002	0.8	
S2	1.003	0.6	

Results for 10 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	14	9.644	0.079	0.5	0.0188	0.0000	OK
15 minute winter	225 Drain	14	9.524	0.014	0.3	0.0000	0.0000	OK
15 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S1	14	9.644	0.049	0.9	0.0038	0.0000	OK
15 minute winter	BioRetention	14	9.644	0.059	0.8	0.0524	0.0000	OK
15 minute winter	S2	14	9.644	0.069	0.7	0.0110	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.4
RE1	1.000	0.0	
S1	1.001	0.8	
BioRetention	1.002	0.7	
S2	1.003	0.5	

Results for 10 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.650	0.085	0.5	0.0201	0.0000	OK
30 minute summer	225 Drain	22	9.524	0.014	0.3	0.0000	0.0000	OK
30 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute summer	S1	22	9.650	0.055	0.9	0.0043	0.0000	OK
30 minute summer	BioRetention	22	9.650	0.065	0.8	0.0574	0.0000	OK
30 minute summer	S2	22	9.650	0.075	0.6	0.0119	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.5
RE1	1.000	0.0	
S1	1.001	0.8	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 10 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	23	9.642	0.077	0.4	0.0184	0.0000	OK
30 minute winter	225 Drain	23	9.524	0.014	0.3	0.0000	0.0000	OK
30 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute winter	S1	23	9.643	0.048	0.7	0.0037	0.0000	OK
30 minute winter	BioRetention	23	9.643	0.058	0.6	0.0511	0.0000	OK
30 minute winter	S2	23	9.642	0.067	0.5	0.0107	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.5
RE1	1.000	0.0	
S1	1.001	0.6	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 10 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	38	9.642	0.077	0.4	0.0182	0.0000	OK
60 minute summer	225 Drain	38	9.524	0.014	0.3	0.0000	0.0000	OK
60 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute summer	S1	38	9.642	0.047	0.7	0.0036	0.0000	OK
60 minute summer	BioRetention	38	9.642	0.057	0.6	0.0503	0.0000	OK
60 minute summer	S2	38	9.642	0.067	0.5	0.0106	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.7
RE1	1.000	0.0	
S1	1.001	0.6	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 10 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	38	9.632	0.067	0.3	0.0159	0.0000	OK
60 minute winter	225 Drain	39	9.523	0.013	0.3	0.0000	0.0000	OK
60 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute winter	S1	39	9.632	0.037	0.5	0.0029	0.0000	OK
60 minute winter	BioRetention	38	9.632	0.047	0.4	0.0416	0.0000	OK
60 minute winter	S2	38	9.632	0.057	0.4	0.0090	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.7
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 10 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	70	9.627	0.062	0.3	0.0148	0.0000	OK
120 minute summer	225 Drain	70	9.523	0.013	0.3	0.0000	0.0000	OK
120 minute summer	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute summer	S1	70	9.628	0.033	0.4	0.0025	0.0000	OK
120 minute summer	BioRetention	70	9.628	0.043	0.4	0.0378	0.0000	OK
120 minute summer	S2	70	9.627	0.052	0.3	0.0083	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.8
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 10 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	70	9.617	0.052	0.3	0.0125	0.0000	OK
120 minute winter	225 Drain	72	9.522	0.012	0.3	0.0000	0.0000	OK
120 minute winter	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute winter	S1	70	9.618	0.023	0.3	0.0018	0.0000	OK
120 minute winter	BioRetention	70	9.618	0.033	0.3	0.0289	0.0000	OK
120 minute winter	S2	70	9.617	0.042	0.3	0.0067	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	0.9
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 10 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	100	9.613	0.048	0.3	0.0114	0.0000	OK
180 minute summer	225 Drain	100	9.522	0.012	0.2	0.0000	0.0000	OK
180 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute summer	S1	96	9.613	0.018	0.3	0.0014	0.0000	OK
180 minute summer	BioRetention	100	9.613	0.028	0.3	0.0249	0.0000	OK
180 minute summer	S2	100	9.613	0.038	0.3	0.0060	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.8
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 10 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	112	9.601	0.036	0.2	0.0085	0.0000	OK
180 minute winter	225 Drain	112	9.521	0.011	0.2	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	100	9.609	0.014	0.2	0.0011	0.0000	OK
180 minute winter	BioRetention	112	9.601	0.016	0.2	0.0141	0.0000	OK
180 minute winter	S2	112	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.8
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 10 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	128	9.610	0.045	0.3	0.0107	0.0000	OK
240 minute summer	225 Drain	128	9.522	0.012	0.2	0.0000	0.0000	OK
240 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute summer	S1	124	9.612	0.017	0.3	0.0013	0.0000	OK
240 minute summer	BioRetention	128	9.610	0.025	0.3	0.0222	0.0000	OK
240 minute summer	S2	128	9.610	0.035	0.3	0.0055	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.8
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 10 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	136	9.600	0.035	0.2	0.0084	0.0000	OK
240 minute winter	225 Drain	136	9.521	0.011	0.2	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	136	9.609	0.014	0.2	0.0011	0.0000	OK
240 minute winter	BioRetention	136	9.600	0.015	0.2	0.0137	0.0000	OK
240 minute winter	S2	136	9.600	0.025	0.2	0.0040	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.9
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 10 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	192	9.599	0.034	0.2	0.0082	0.0000	OK
360 minute summer	225 Drain	192	9.521	0.011	0.2	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	192	9.609	0.014	0.2	0.0011	0.0000	OK
360 minute summer	BioRetention	192	9.600	0.015	0.2	0.0129	0.0000	OK
360 minute summer	S2	192	9.599	0.024	0.2	0.0039	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.8
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 10 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	184	9.586	0.021	0.1	0.0050	0.0000	OK
360 minute winter	225 Drain	160	9.518	0.008	0.1	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	136	9.604	0.009	0.1	0.0007	0.0000	OK
360 minute winter	BioRetention	136	9.594	0.009	0.1	0.0084	0.0000	OK
360 minute winter	S2	232	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.8
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	248	9.597	0.032	0.2	0.0077	0.0000	OK
480 minute summer	225 Drain	248	9.520	0.010	0.2	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	248	9.608	0.013	0.2	0.0010	0.0000	OK
480 minute summer	BioRetention	248	9.599	0.014	0.2	0.0120	0.0000	OK
480 minute summer	S2	248	9.597	0.022	0.2	0.0036	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	0.9
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 10 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	232	9.586	0.021	0.1	0.0050	0.0000	OK
480 minute winter	225 Drain	208	9.518	0.008	0.1	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	184	9.604	0.009	0.1	0.0007	0.0000	OK
480 minute winter	BioRetention	184	9.594	0.009	0.1	0.0084	0.0000	OK
480 minute winter	S2	280	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.0
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	345	9.586	0.021	0.1	0.0050	0.0000	OK
600 minute summer	225 Drain	360	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	270	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute summer	BioRetention	270	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute summer	S2	285	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.7
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	315	9.586	0.021	0.1	0.0050	0.0000	OK
600 minute winter	225 Drain	360	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	240	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute winter	BioRetention	240	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute winter	S2	390	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	390	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute summer	225 Drain	435	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	315	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute summer	BioRetention	315	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute summer	S2	330	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.9
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	375	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute winter	225 Drain	420	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	300	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute winter	BioRetention	300	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute winter	S2	450	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	510	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute summer	225 Drain	555	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	435	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute summer	BioRetention	435	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute summer	S2	450	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.9
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	510	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute winter	225 Drain	555	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	435	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute winter	BioRetention	435	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute winter	S2	450	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.9
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	780	9.586	0.021	0.1	0.0049	0.0000	OK
1440 minute summer	225 Drain	720	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	750	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute summer	BioRetention	720	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute summer	S2	750	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.7
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 10 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	30	9.565	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	225 Drain	30	9.510	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	30	9.595	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	BioRetention	30	9.585	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S2	30	9.575	0.000	0.0	0.0000	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.0	0.0
RE1	1.000	0.0	
S1	1.001	0.0	
BioRetention	1.002	0.0	
S2	1.003	0.0	

Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	13	9.668	0.103	0.6	0.0245	0.0000	SURCHARGED
15 minute summer	225 Drain	14	9.525	0.015	0.4	0.0000	0.0000	OK
15 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S1	13	9.668	0.073	1.4	0.0057	0.0000	OK
15 minute summer	BioRetention	13	9.668	0.083	1.2	0.0736	0.0000	OK
15 minute summer	S2	13	9.668	0.093	1.0	0.0148	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.5
RE1	1.000	0.0	
S1	1.001	1.2	
BioRetention	1.002	1.0	
S2	1.003	0.6	

Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	14	9.665	0.100	0.5	0.0237	0.0000	OK
15 minute winter	225 Drain	14	9.525	0.015	0.4	0.0000	0.0000	OK
15 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S1	14	9.665	0.070	1.2	0.0054	0.0000	OK
15 minute winter	BioRetention	14	9.665	0.080	1.1	0.0707	0.0000	OK
15 minute winter	S2	14	9.665	0.090	0.8	0.0142	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.5
RE1	1.000	0.0	
S1	1.001	1.1	
BioRetention	1.002	0.8	
S2	1.003	0.5	

Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.674	0.109	0.5	0.0259	0.0000	SURCHARGED
30 minute summer	225 Drain	22	9.525	0.015	0.4	0.0000	0.0000	OK
30 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute summer	S1	22	9.674	0.079	1.2	0.0062	0.0000	OK
30 minute summer	BioRetention	22	9.674	0.089	1.0	0.0792	0.0000	OK
30 minute summer	S2	22	9.674	0.099	0.8	0.0158	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.7
RE1	1.000	0.0	
S1	1.001	1.0	
BioRetention	1.002	0.8	
S2	1.003	0.5	

Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	23	9.669	0.104	0.5	0.0248	0.0000	SURCHARGED
30 minute winter	225 Drain	23	9.525	0.015	0.4	0.0000	0.0000	OK
30 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
30 minute winter	S1	23	9.670	0.075	0.9	0.0058	0.0000	OK
30 minute winter	BioRetention	23	9.669	0.084	0.8	0.0750	0.0000	OK
30 minute winter	S2	23	9.669	0.094	0.6	0.0150	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.7
RE1	1.000	0.0	
S1	1.001	0.8	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	38	9.669	0.104	0.5	0.0247	0.0000	SURCHARGED
60 minute summer	225 Drain	38	9.525	0.015	0.4	0.0000	0.0000	OK
60 minute summer	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute summer	S1	38	9.669	0.074	0.9	0.0058	0.0000	OK
60 minute summer	BioRetention	38	9.669	0.084	0.8	0.0744	0.0000	OK
60 minute summer	S2	38	9.669	0.094	0.6	0.0149	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.9
RE1	1.000	0.0	
S1	1.001	0.8	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	40	9.658	0.093	0.4	0.0221	0.0000	OK
60 minute winter	225 Drain	41	9.524	0.014	0.4	0.0000	0.0000	OK
60 minute winter	RE1	1	9.700	0.000	0.0	0.0000	0.0000	OK
60 minute winter	S1	40	9.658	0.063	0.6	0.0049	0.0000	OK
60 minute winter	BioRetention	40	9.658	0.073	0.5	0.0647	0.0000	OK
60 minute winter	S2	40	9.658	0.083	0.5	0.0132	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	0.9
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	70	9.646	0.081	0.4	0.0193	0.0000	OK
120 minute summer	225 Drain	70	9.524	0.014	0.3	0.0000	0.0000	OK
120 minute summer	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute summer	S1	70	9.646	0.051	0.6	0.0040	0.0000	OK
120 minute summer	BioRetention	70	9.646	0.061	0.5	0.0545	0.0000	OK
120 minute summer	S2	70	9.646	0.071	0.4	0.0113	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.2
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	76	9.631	0.066	0.3	0.0157	0.0000	OK
120 minute winter	225 Drain	76	9.523	0.013	0.3	0.0000	0.0000	OK
120 minute winter	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute winter	S1	76	9.631	0.036	0.4	0.0028	0.0000	OK
120 minute winter	BioRetention	76	9.631	0.046	0.4	0.0411	0.0000	OK
120 minute winter	S2	76	9.631	0.056	0.3	0.0089	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.2
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	100	9.633	0.068	0.3	0.0161	0.0000	OK
180 minute summer	225 Drain	100	9.523	0.013	0.3	0.0000	0.0000	OK
180 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute summer	S1	100	9.633	0.038	0.4	0.0030	0.0000	OK
180 minute summer	BioRetention	100	9.633	0.048	0.4	0.0425	0.0000	OK
180 minute summer	S2	100	9.633	0.058	0.3	0.0092	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.1
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	100	9.618	0.053	0.3	0.0127	0.0000	OK
180 minute winter	225 Drain	100	9.522	0.012	0.3	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	100	9.619	0.024	0.3	0.0018	0.0000	OK
180 minute winter	BioRetention	100	9.618	0.033	0.3	0.0297	0.0000	OK
180 minute winter	S2	100	9.618	0.043	0.3	0.0069	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.2
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	132	9.620	0.055	0.3	0.0131	0.0000	OK
240 minute summer	225 Drain	132	9.522	0.012	0.3	0.0000	0.0000	OK
240 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute summer	S1	132	9.620	0.025	0.3	0.0020	0.0000	OK
240 minute summer	BioRetention	132	9.620	0.035	0.3	0.0314	0.0000	OK
240 minute summer	S2	132	9.620	0.045	0.3	0.0072	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.1
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	148	9.601	0.036	0.2	0.0085	0.0000	OK
240 minute winter	225 Drain	148	9.521	0.011	0.2	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	124	9.609	0.014	0.2	0.0011	0.0000	OK
240 minute winter	BioRetention	148	9.601	0.016	0.2	0.0142	0.0000	OK
240 minute winter	S2	148	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.1
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	192	9.609	0.044	0.2	0.0105	0.0000	OK
360 minute summer	225 Drain	192	9.522	0.012	0.2	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	184	9.612	0.017	0.3	0.0013	0.0000	OK
360 minute summer	BioRetention	192	9.609	0.024	0.3	0.0215	0.0000	OK
360 minute summer	S2	192	9.609	0.034	0.3	0.0054	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.0
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.2	

Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	200	9.601	0.036	0.2	0.0085	0.0000	OK
360 minute winter	225 Drain	200	9.521	0.011	0.2	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	192	9.609	0.014	0.2	0.0011	0.0000	OK
360 minute winter	BioRetention	200	9.601	0.016	0.2	0.0139	0.0000	OK
360 minute winter	S2	200	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.2
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	256	9.600	0.035	0.2	0.0084	0.0000	OK
480 minute summer	225 Drain	256	9.521	0.011	0.2	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	256	9.609	0.014	0.2	0.0011	0.0000	OK
480 minute summer	BioRetention	256	9.600	0.015	0.2	0.0136	0.0000	OK
480 minute summer	S2	256	9.600	0.025	0.2	0.0040	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.1
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	216	9.586	0.021	0.1	0.0050	0.0000	OK
480 minute winter	225 Drain	192	9.518	0.008	0.1	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	168	9.604	0.009	0.1	0.0007	0.0000	OK
480 minute winter	BioRetention	168	9.594	0.009	0.1	0.0084	0.0000	OK
480 minute winter	S2	264	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	315	9.600	0.035	0.2	0.0082	0.0000	OK
600 minute summer	225 Drain	315	9.521	0.011	0.2	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	315	9.609	0.014	0.2	0.0011	0.0000	OK
600 minute summer	BioRetention	315	9.600	0.015	0.2	0.0130	0.0000	OK
600 minute summer	S2	315	9.600	0.025	0.2	0.0039	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.1
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	300	9.586	0.021	0.1	0.0050	0.0000	OK
600 minute winter	225 Drain	345	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	225	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute winter	BioRetention	225	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute winter	S2	390	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.2
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	375	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute summer	225 Drain	420	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	300	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute summer	BioRetention	300	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute summer	S2	450	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	360	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute winter	225 Drain	405	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	285	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute winter	BioRetention	285	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute winter	S2	450	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.2
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	495	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute summer	225 Drain	540	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	420	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute summer	BioRetention	420	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute summer	S2	570	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	480	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute winter	225 Drain	525	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	405	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute winter	BioRetention	405	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute winter	S2	570	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.2
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	810	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute summer	225 Drain	690	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	720	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute summer	BioRetention	690	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute summer	S2	720	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.1
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	780	9.586	0.021	0.1	0.0049	0.0000	OK
1440 minute winter	225 Drain	720	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	750	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute winter	BioRetention	720	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute winter	S2	750	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	0.7
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year +45% CC 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	14	9.709	0.144	0.8	0.0342	0.0000	SURCHARGED
15 minute summer	225 Drain	14	9.526	0.016	0.5	0.0000	0.0000	OK
15 minute summer	RE1	14	9.710	0.010	0.2	0.0003	0.0000	OK
15 minute summer	S1	14	9.709	0.114	2.0	0.0089	0.0000	SURCHARGED
15 minute summer	BioRetention	14	9.709	0.124	1.6	0.1102	0.0000	SURCHARGED
15 minute summer	S2	14	9.709	0.134	1.2	0.0213	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	0.7
RE1	1.000	-0.2	
S1	1.001	1.6	
BioRetention	1.002	1.2	
S2	1.003	0.8	

Results for 30 year +45% CC 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	14	9.707	0.142	0.7	0.0337	0.0000	SURCHARGED
15 minute winter	225 Drain	15	9.526	0.016	0.5	0.0000	0.0000	OK
15 minute winter	RE1	15	9.707	0.007	0.1	0.0002	0.0000	OK
15 minute winter	S1	14	9.707	0.112	1.7	0.0087	0.0000	SURCHARGED
15 minute winter	BioRetention	14	9.707	0.122	1.4	0.1082	0.0000	SURCHARGED
15 minute winter	S2	14	9.707	0.132	1.0	0.0209	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	0.7
RE1	1.000	-0.1	
S1	1.001	1.4	
BioRetention	1.002	1.0	
S2	1.003	0.7	

Results for 30 year +45% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.717	0.152	0.7	0.0363	0.0000	SURCHARGED
30 minute summer	225 Drain	23	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute summer	RE1	22	9.718	0.018	0.1	0.0004	0.0000	OK
30 minute summer	S1	22	9.718	0.123	1.7	0.0096	0.0000	SURCHARGED
30 minute summer	BioRetention	22	9.718	0.133	1.4	0.1179	0.0000	SURCHARGED
30 minute summer	S2	22	9.718	0.143	1.0	0.0227	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.1	
S1	1.001	1.4	
BioRetention	1.002	1.0	
S2	1.003	0.7	

Results for 30 year +45% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	23	9.715	0.150	0.6	0.0358	0.0000	SURCHARGED
30 minute winter	225 Drain	24	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute winter	RE1	23	9.716	0.016	0.2	0.0004	0.0000	OK
30 minute winter	S1	23	9.716	0.121	1.3	0.0094	0.0000	SURCHARGED
30 minute winter	BioRetention	23	9.716	0.131	1.1	0.1161	0.0000	SURCHARGED
30 minute winter	S2	23	9.716	0.141	0.9	0.0224	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.2	
S1	1.001	1.1	
BioRetention	1.002	0.9	
S2	1.003	0.6	

Results for 30 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	39	9.716	0.151	0.6	0.0359	0.0000	SURCHARGED
60 minute summer	225 Drain	40	9.526	0.016	0.5	0.0000	0.0000	OK
60 minute summer	RE1	39	9.716	0.016	0.2	0.0004	0.0000	OK
60 minute summer	S1	39	9.716	0.121	1.3	0.0095	0.0000	SURCHARGED
60 minute summer	BioRetention	39	9.716	0.131	1.1	0.1164	0.0000	SURCHARGED
60 minute summer	S2	39	9.716	0.141	0.8	0.0224	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.3
RE1	1.000	-0.2	
S1	1.001	1.1	
BioRetention	1.002	0.8	
S2	1.003	0.6	

Results for 30 year +45% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	41	9.707	0.142	0.5	0.0338	0.0000	SURCHARGED
60 minute winter	225 Drain	42	9.526	0.016	0.5	0.0000	0.0000	OK
60 minute winter	RE1	41	9.707	0.007	0.1	0.0002	0.0000	OK
60 minute winter	S1	41	9.707	0.112	0.9	0.0088	0.0000	SURCHARGED
60 minute winter	BioRetention	41	9.707	0.122	0.8	0.1086	0.0000	SURCHARGED
60 minute winter	S2	41	9.707	0.132	0.7	0.0210	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.3
RE1	1.000	-0.1	
S1	1.001	0.8	
BioRetention	1.002	0.7	
S2	1.003	0.5	

Results for 30 year +45% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	72	9.695	0.130	0.5	0.0309	0.0000	SURCHARGED
120 minute summer	225 Drain	72	9.526	0.016	0.4	0.0000	0.0000	OK
120 minute summer	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute summer	S1	72	9.695	0.100	0.8	0.0078	0.0000	SURCHARGED
120 minute summer	BioRetention	72	9.695	0.110	0.7	0.0979	0.0000	SURCHARGED
120 minute summer	S2	72	9.695	0.120	0.6	0.0191	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.6
RE1	1.000	0.0	
S1	1.001	0.7	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 30 year +45% CC 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	76	9.669	0.104	0.4	0.0247	0.0000	SURCHARGED
120 minute winter	225 Drain	76	9.525	0.015	0.4	0.0000	0.0000	OK
120 minute winter	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute winter	S1	76	9.669	0.074	0.6	0.0058	0.0000	OK
120 minute winter	BioRetention	76	9.669	0.084	0.5	0.0747	0.0000	OK
120 minute winter	S2	76	9.669	0.094	0.5	0.0150	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.6
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 30 year +45% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	104	9.663	0.098	0.4	0.0233	0.0000	OK
180 minute summer	225 Drain	104	9.524	0.014	0.4	0.0000	0.0000	OK
180 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute summer	S1	104	9.663	0.068	0.6	0.0053	0.0000	OK
180 minute summer	BioRetention	104	9.663	0.078	0.5	0.0691	0.0000	OK
180 minute summer	S2	104	9.663	0.088	0.5	0.0140	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.9
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 30 year +45% CC 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	104	9.644	0.079	0.3	0.0187	0.0000	OK
180 minute winter	225 Drain	104	9.524	0.014	0.3	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	104	9.644	0.049	0.4	0.0038	0.0000	OK
180 minute winter	BioRetention	104	9.644	0.059	0.4	0.0521	0.0000	OK
180 minute winter	S2	104	9.644	0.069	0.4	0.0109	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.8
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 30 year +45% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	132	9.653	0.088	0.4	0.0210	0.0000	OK
240 minute summer	225 Drain	136	9.524	0.014	0.4	0.0000	0.0000	OK
240 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute summer	S1	132	9.654	0.059	0.5	0.0046	0.0000	OK
240 minute summer	BioRetention	132	9.653	0.068	0.5	0.0608	0.0000	OK
240 minute summer	S2	132	9.653	0.078	0.4	0.0125	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.9
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 30 year +45% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	140	9.626	0.061	0.3	0.0144	0.0000	OK
240 minute winter	225 Drain	140	9.523	0.013	0.3	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	140	9.626	0.031	0.3	0.0024	0.0000	OK
240 minute winter	BioRetention	140	9.626	0.041	0.3	0.0363	0.0000	OK
240 minute winter	S2	140	9.626	0.051	0.3	0.0081	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.0
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year +45% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	192	9.631	0.066	0.3	0.0158	0.0000	OK
360 minute summer	225 Drain	200	9.523	0.013	0.3	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	192	9.632	0.037	0.4	0.0029	0.0000	OK
360 minute summer	BioRetention	192	9.631	0.046	0.4	0.0413	0.0000	OK
360 minute summer	S2	192	9.631	0.056	0.3	0.0090	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.8
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year +45% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	224	9.601	0.036	0.2	0.0086	0.0000	OK
360 minute winter	225 Drain	224	9.521	0.011	0.2	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	168	9.609	0.014	0.2	0.0011	0.0000	OK
360 minute winter	BioRetention	224	9.601	0.016	0.2	0.0143	0.0000	OK
360 minute winter	S2	224	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.7
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	248	9.615	0.050	0.3	0.0119	0.0000	OK
480 minute summer	225 Drain	256	9.522	0.012	0.3	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	248	9.615	0.020	0.3	0.0016	0.0000	OK
480 minute summer	BioRetention	248	9.615	0.030	0.3	0.0267	0.0000	OK
480 minute summer	S2	248	9.615	0.040	0.3	0.0063	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.7
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 30 year +45% CC 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	280	9.601	0.036	0.2	0.0086	0.0000	OK
480 minute winter	225 Drain	280	9.521	0.011	0.2	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	232	9.609	0.014	0.2	0.0011	0.0000	OK
480 minute winter	BioRetention	280	9.601	0.016	0.2	0.0143	0.0000	OK
480 minute winter	S2	280	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.9
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	330	9.601	0.036	0.2	0.0085	0.0000	OK
600 minute summer	225 Drain	330	9.521	0.011	0.2	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	315	9.609	0.014	0.2	0.0011	0.0000	OK
600 minute summer	BioRetention	330	9.601	0.016	0.2	0.0142	0.0000	OK
600 minute summer	S2	330	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	315	9.600	0.035	0.2	0.0082	0.0000	OK
600 minute winter	225 Drain	315	9.521	0.011	0.2	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	315	9.609	0.014	0.2	0.0011	0.0000	OK
600 minute winter	BioRetention	315	9.600	0.015	0.2	0.0130	0.0000	OK
600 minute winter	S2	315	9.600	0.025	0.2	0.0039	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.8
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	390	9.601	0.036	0.2	0.0085	0.0000	OK
720 minute summer	225 Drain	390	9.521	0.011	0.2	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	375	9.609	0.014	0.2	0.0011	0.0000	OK
720 minute summer	BioRetention	390	9.601	0.016	0.2	0.0142	0.0000	OK
720 minute summer	S2	390	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	480	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute winter	225 Drain	510	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	240	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute winter	BioRetention	240	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute winter	S2	405	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.8
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year +45% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	495	9.600	0.035	0.2	0.0082	0.0000	OK
960 minute summer	225 Drain	495	9.521	0.011	0.2	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	495	9.609	0.014	0.2	0.0011	0.0000	OK
960 minute summer	BioRetention	495	9.600	0.015	0.2	0.0130	0.0000	OK
960 minute summer	S2	495	9.600	0.025	0.2	0.0039	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 30 year +45% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	585	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute winter	225 Drain	615	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	345	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute winter	BioRetention	345	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute winter	S2	510	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	2.0
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year +45% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	750	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute summer	225 Drain	780	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	660	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute summer	BioRetention	630	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute summer	S2	660	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.8
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 30 year +45% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	870	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute winter	225 Drain	900	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	630	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute winter	BioRetention	600	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute winter	S2	630	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	2.2
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +10% A 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	14	9.703	0.138	0.8	0.0327	0.0000	SURCHARGED
15 minute summer	225 Drain	14	9.526	0.016	0.5	0.0000	0.0000	OK
15 minute summer	RE1	14	9.703	0.003	0.1	0.0001	0.0000	OK
15 minute summer	S1	14	9.703	0.108	1.9	0.0084	0.0000	SURCHARGED
15 minute summer	BioRetention	14	9.703	0.118	1.6	0.1046	0.0000	SURCHARGED
15 minute summer	S2	14	9.703	0.128	1.2	0.0203	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	0.7
RE1	1.000	-0.1	
S1	1.001	1.6	
BioRetention	1.002	1.2	
S2	1.003	0.8	

Results for 100 year +10% A 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	14	9.701	0.136	0.7	0.0324	0.0000	SURCHARGED
15 minute winter	225 Drain	15	9.526	0.016	0.5	0.0000	0.0000	OK
15 minute winter	RE1	14	9.702	0.002	0.0	0.0000	0.0000	OK
15 minute winter	S1	14	9.702	0.107	1.7	0.0083	0.0000	SURCHARGED
15 minute winter	BioRetention	14	9.702	0.117	1.4	0.1035	0.0000	SURCHARGED
15 minute winter	S2	14	9.701	0.126	1.0	0.0201	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	0.7
RE1	1.000	0.0	
S1	1.001	1.4	
BioRetention	1.002	1.0	
S2	1.003	0.7	

Results for 100 year +10% A 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	22	9.715	0.150	0.7	0.0358	0.0000	SURCHARGED
30 minute summer	225 Drain	23	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute summer	RE1	23	9.715	0.015	0.1	0.0004	0.0000	OK
30 minute summer	S1	22	9.716	0.121	1.7	0.0094	0.0000	SURCHARGED
30 minute summer	BioRetention	22	9.716	0.131	1.4	0.1160	0.0000	SURCHARGED
30 minute summer	S2	22	9.716	0.141	1.0	0.0223	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.1	
S1	1.001	1.4	
BioRetention	1.002	1.0	
S2	1.003	0.7	

Results for 100 year +10% A 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	23	9.711	0.146	0.6	0.0348	0.0000	SURCHARGED
30 minute winter	225 Drain	24	9.526	0.016	0.5	0.0000	0.0000	OK
30 minute winter	RE1	24	9.712	0.012	0.1	0.0003	0.0000	OK
30 minute winter	S1	23	9.712	0.117	1.3	0.0091	0.0000	SURCHARGED
30 minute winter	BioRetention	23	9.711	0.126	1.1	0.1122	0.0000	SURCHARGED
30 minute winter	S2	23	9.711	0.136	0.9	0.0217	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.1	
S1	1.001	1.1	
BioRetention	1.002	0.9	
S2	1.003	0.6	

Results for 100 year +10% A 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	39	9.712	0.147	0.6	0.0350	0.0000	SURCHARGED
60 minute summer	225 Drain	40	9.526	0.016	0.5	0.0000	0.0000	OK
60 minute summer	RE1	39	9.713	0.013	0.1	0.0003	0.0000	OK
60 minute summer	S1	39	9.712	0.117	1.2	0.0092	0.0000	SURCHARGED
60 minute summer	BioRetention	39	9.712	0.127	1.0	0.1130	0.0000	SURCHARGED
60 minute summer	S2	39	9.712	0.137	0.8	0.0218	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.2
RE1	1.000	-0.1	
S1	1.001	1.0	
BioRetention	1.002	0.8	
S2	1.003	0.6	

Results for 100 year +10% A 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	42	9.701	0.136	0.5	0.0323	0.0000	SURCHARGED
60 minute winter	225 Drain	42	9.526	0.016	0.5	0.0000	0.0000	OK
60 minute winter	RE1	42	9.701	0.001	0.0	0.0000	0.0000	OK
60 minute winter	S1	41	9.701	0.106	0.9	0.0083	0.0000	SURCHARGED
60 minute winter	BioRetention	41	9.701	0.116	0.8	0.1031	0.0000	SURCHARGED
60 minute winter	S2	42	9.701	0.126	0.6	0.0200	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.3
RE1	1.000	0.0	
S1	1.001	0.8	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 100 year +10% A 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	72	9.680	0.115	0.5	0.0275	0.0000	SURCHARGED
120 minute summer	225 Drain	72	9.525	0.015	0.4	0.0000	0.0000	OK
120 minute summer	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute summer	S1	72	9.681	0.086	0.8	0.0067	0.0000	OK
120 minute summer	BioRetention	72	9.681	0.096	0.7	0.0849	0.0000	OK
120 minute summer	S2	72	9.681	0.106	0.6	0.0168	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.5
RE1	1.000	0.0	
S1	1.001	0.7	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 100 year +10% A 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	74	9.661	0.096	0.4	0.0228	0.0000	OK
120 minute winter	225 Drain	74	9.524	0.014	0.4	0.0000	0.0000	OK
120 minute winter	RE1	2	9.700	0.000	0.0	0.0000	0.0000	OK
120 minute winter	S1	74	9.661	0.066	0.5	0.0051	0.0000	OK
120 minute winter	BioRetention	74	9.661	0.076	0.5	0.0673	0.0000	OK
120 minute winter	S2	74	9.661	0.086	0.4	0.0136	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.5
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 100 year +10% A 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	100	9.658	0.093	0.4	0.0222	0.0000	OK
180 minute summer	225 Drain	100	9.524	0.014	0.4	0.0000	0.0000	OK
180 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute summer	S1	100	9.659	0.064	0.6	0.0050	0.0000	OK
180 minute summer	BioRetention	100	9.659	0.074	0.5	0.0654	0.0000	OK
180 minute summer	S2	100	9.659	0.084	0.5	0.0133	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	1.8
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 100 year +10% A 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	104	9.644	0.079	0.3	0.0187	0.0000	OK
180 minute winter	225 Drain	104	9.524	0.014	0.3	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	104	9.644	0.049	0.4	0.0038	0.0000	OK
180 minute winter	BioRetention	104	9.644	0.059	0.4	0.0521	0.0000	OK
180 minute winter	S2	104	9.644	0.069	0.4	0.0109	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.8
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 100 year +10% A 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	132	9.648	0.083	0.4	0.0197	0.0000	OK
240 minute summer	225 Drain	132	9.524	0.014	0.3	0.0000	0.0000	OK
240 minute summer	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute summer	S1	132	9.648	0.053	0.5	0.0041	0.0000	OK
240 minute summer	BioRetention	132	9.648	0.063	0.5	0.0559	0.0000	OK
240 minute summer	S2	132	9.648	0.073	0.4	0.0116	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.8
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 100 year +10% A 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	140	9.626	0.061	0.3	0.0144	0.0000	OK
240 minute winter	225 Drain	140	9.523	0.013	0.3	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	140	9.626	0.031	0.3	0.0024	0.0000	OK
240 minute winter	BioRetention	140	9.626	0.041	0.3	0.0363	0.0000	OK
240 minute winter	S2	140	9.626	0.051	0.3	0.0081	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.0
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +10% A 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	192	9.619	0.054	0.3	0.0130	0.0000	OK
360 minute summer	225 Drain	192	9.522	0.012	0.3	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	192	9.620	0.025	0.3	0.0019	0.0000	OK
360 minute summer	BioRetention	192	9.620	0.035	0.3	0.0308	0.0000	OK
360 minute summer	S2	192	9.620	0.045	0.3	0.0071	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.6
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +10% A 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	224	9.601	0.036	0.2	0.0086	0.0000	OK
360 minute winter	225 Drain	224	9.521	0.011	0.2	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	168	9.609	0.014	0.2	0.0011	0.0000	OK
360 minute winter	BioRetention	224	9.601	0.016	0.2	0.0143	0.0000	OK
360 minute winter	S2	224	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.7
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +10% A 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	248	9.615	0.050	0.3	0.0118	0.0000	OK
480 minute summer	225 Drain	256	9.522	0.012	0.3	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	248	9.615	0.020	0.3	0.0016	0.0000	OK
480 minute summer	BioRetention	248	9.615	0.030	0.3	0.0265	0.0000	OK
480 minute summer	S2	248	9.615	0.040	0.3	0.0063	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	1.5
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +10% A 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	272	9.601	0.036	0.2	0.0086	0.0000	OK
480 minute winter	225 Drain	272	9.521	0.011	0.2	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	240	9.609	0.014	0.2	0.0011	0.0000	OK
480 minute winter	BioRetention	272	9.601	0.016	0.2	0.0143	0.0000	OK
480 minute winter	S2	272	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.7
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +10% A 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	330	9.601	0.036	0.2	0.0085	0.0000	OK
600 minute summer	225 Drain	330	9.521	0.011	0.2	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	315	9.609	0.014	0.2	0.0011	0.0000	OK
600 minute summer	BioRetention	330	9.601	0.016	0.2	0.0142	0.0000	OK
600 minute summer	S2	330	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +10% A 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	285	9.586	0.021	0.1	0.0050	0.0000	OK
600 minute winter	225 Drain	330	9.518	0.008	0.1	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	210	9.604	0.009	0.1	0.0007	0.0000	OK
600 minute winter	BioRetention	210	9.594	0.009	0.1	0.0084	0.0000	OK
600 minute winter	S2	375	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.4
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +10% A 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	390	9.601	0.036	0.2	0.0085	0.0000	OK
720 minute summer	225 Drain	390	9.521	0.011	0.2	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	375	9.609	0.014	0.2	0.0011	0.0000	OK
720 minute summer	BioRetention	390	9.601	0.016	0.2	0.0142	0.0000	OK
720 minute summer	S2	390	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +10% A 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	495	9.586	0.021	0.1	0.0050	0.0000	OK
720 minute winter	225 Drain	375	9.518	0.008	0.1	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	255	9.604	0.009	0.1	0.0007	0.0000	OK
720 minute winter	BioRetention	255	9.594	0.009	0.1	0.0084	0.0000	OK
720 minute winter	S2	420	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.6
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +10% A 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	495	9.600	0.035	0.2	0.0082	0.0000	OK
960 minute summer	225 Drain	495	9.521	0.011	0.2	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	495	9.609	0.014	0.2	0.0011	0.0000	OK
960 minute summer	BioRetention	495	9.600	0.015	0.2	0.0130	0.0000	OK
960 minute summer	S2	495	9.600	0.025	0.2	0.0039	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	1.6
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +10% A 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	600	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute winter	225 Drain	630	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	360	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute winter	BioRetention	360	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute winter	S2	525	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.8
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +10% A 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	780	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute summer	225 Drain	810	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	690	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute summer	BioRetention	660	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute summer	S2	690	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.5
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +10% A 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	750	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute winter	225 Drain	780	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	660	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute winter	BioRetention	630	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute winter	S2	660	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	1.8
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +45% CC +10% A 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S3	15	9.753	0.188	1.0	0.0447	0.0000	SURCHARGED
15 minute summer	225 Drain	15	9.527	0.017	0.5	0.0000	0.0000	OK
15 minute summer	RE1	15	9.753	0.053	0.4	0.0013	0.0000	OK
15 minute summer	S1	15	9.754	0.159	2.7	0.0124	0.0000	SURCHARGED
15 minute summer	BioRetention	15	9.753	0.168	2.1	0.1495	0.0000	SURCHARGED
15 minute summer	S2	15	9.753	0.178	1.5	0.0283	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.4	
S1	1.001	2.1	
BioRetention	1.002	1.5	
S2	1.003	1.0	

Results for 100 year +45% CC +10% A 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S3	15	9.755	0.190	0.9	0.0452	0.0000	SURCHARGED
15 minute winter	225 Drain	15	9.527	0.017	0.5	0.0000	0.0000	OK
15 minute winter	RE1	15	9.755	0.055	0.4	0.0014	0.0000	OK
15 minute winter	S1	15	9.755	0.160	2.4	0.0125	0.0000	SURCHARGED
15 minute winter	BioRetention	15	9.755	0.170	1.9	0.1511	0.0000	SURCHARGED
15 minute winter	S2	15	9.755	0.180	1.4	0.0286	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	1.0
RE1	1.000	-0.4	
S1	1.001	1.9	
BioRetention	1.002	1.4	
S2	1.003	0.9	

Results for 100 year +45% CC +10% A 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	S3	23	9.776	0.211	0.9	0.0502	0.0000	SURCHARGED
30 minute summer	225 Drain	24	9.528	0.018	0.6	0.0000	0.0000	OK
30 minute summer	RE1	23	9.777	0.077	0.4	0.0019	0.0000	OK
30 minute summer	S1	23	9.777	0.182	2.4	0.0142	0.0000	SURCHARGED
30 minute summer	BioRetention	23	9.776	0.191	1.8	0.1700	0.0000	SURCHARGED
30 minute summer	S2	23	9.776	0.201	1.3	0.0320	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.6	1.4
RE1	1.000	-0.4	
S1	1.001	1.8	
BioRetention	1.002	1.3	
S2	1.003	0.9	

Results for 100 year +45% CC +10% A 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	S3	24	9.775	0.210	0.8	0.0499	0.0000	SURCHARGED
30 minute winter	225 Drain	25	9.528	0.018	0.6	0.0000	0.0000	OK
30 minute winter	RE1	24	9.775	0.075	0.4	0.0019	0.0000	OK
30 minute winter	S1	24	9.775	0.180	1.9	0.0141	0.0000	SURCHARGED
30 minute winter	BioRetention	24	9.775	0.190	1.4	0.1689	0.0000	SURCHARGED
30 minute winter	S2	24	9.775	0.200	1.1	0.0318	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.6	1.4
RE1	1.000	-0.4	
S1	1.001	1.4	
BioRetention	1.002	1.1	
S2	1.003	0.8	

Results for 100 year +45% CC +10% A 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S3	40	9.774	0.209	0.8	0.0498	0.0000	SURCHARGED
60 minute summer	225 Drain	41	9.528	0.018	0.6	0.0000	0.0000	OK
60 minute summer	RE1	40	9.775	0.075	0.4	0.0019	0.0000	OK
60 minute summer	S1	40	9.775	0.180	1.8	0.0140	0.0000	SURCHARGED
60 minute summer	BioRetention	40	9.775	0.190	1.4	0.1685	0.0000	SURCHARGED
60 minute summer	S2	40	9.775	0.200	1.1	0.0317	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.6	1.8
RE1	1.000	-0.4	
S1	1.001	1.4	
BioRetention	1.002	1.1	
S2	1.003	0.8	

Results for 100 year +45% CC +10% A 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	S3	43	9.763	0.198	0.6	0.0472	0.0000	SURCHARGED
60 minute winter	225 Drain	43	9.528	0.018	0.6	0.0000	0.0000	OK
60 minute winter	RE1	42	9.764	0.064	0.2	0.0016	0.0000	OK
60 minute winter	S1	42	9.764	0.169	1.3	0.0132	0.0000	SURCHARGED
60 minute winter	BioRetention	42	9.764	0.179	1.0	0.1587	0.0000	SURCHARGED
60 minute winter	S2	43	9.764	0.189	0.8	0.0300	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.6	1.8
RE1	1.000	-0.2	
S1	1.001	1.0	
BioRetention	1.002	0.8	
S2	1.003	0.6	

Results for 100 year +45% CC +10% A 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	S3	74	9.746	0.181	0.6	0.0431	0.0000	SURCHARGED
120 minute summer	225 Drain	74	9.527	0.017	0.5	0.0000	0.0000	OK
120 minute summer	RE1	74	9.747	0.047	0.1	0.0012	0.0000	OK
120 minute summer	S1	74	9.747	0.152	1.1	0.0118	0.0000	SURCHARGED
120 minute summer	BioRetention	74	9.747	0.162	0.9	0.1434	0.0000	SURCHARGED
120 minute summer	S2	74	9.746	0.171	0.8	0.0272	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	2.1
RE1	1.000	-0.1	
S1	1.001	0.9	
BioRetention	1.002	0.8	
S2	1.003	0.6	

Results for 100 year +45% CC +10% A 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	S3	78	9.721	0.156	0.5	0.0372	0.0000	SURCHARGED
120 minute winter	225 Drain	78	9.526	0.016	0.5	0.0000	0.0000	OK
120 minute winter	RE1	78	9.722	0.022	0.1	0.0005	0.0000	OK
120 minute winter	S1	78	9.722	0.127	0.8	0.0099	0.0000	SURCHARGED
120 minute winter	BioRetention	78	9.722	0.137	0.7	0.1214	0.0000	SURCHARGED
120 minute winter	S2	78	9.722	0.147	0.6	0.0233	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	2.1
RE1	1.000	0.1	
S1	1.001	0.7	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 100 year +45% CC +10% A 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	S3	104	9.715	0.150	0.5	0.0357	0.0000	SURCHARGED
180 minute summer	225 Drain	104	9.526	0.016	0.5	0.0000	0.0000	OK
180 minute summer	RE1	104	9.716	0.016	0.1	0.0004	0.0000	OK
180 minute summer	S1	104	9.716	0.121	0.9	0.0094	0.0000	SURCHARGED
180 minute summer	BioRetention	104	9.716	0.131	0.8	0.1159	0.0000	SURCHARGED
180 minute summer	S2	104	9.715	0.140	0.7	0.0223	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	2.4
RE1	1.000	-0.1	
S1	1.001	0.8	
BioRetention	1.002	0.7	
S2	1.003	0.5	

Results for 100 year +45% CC +10% A 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	S3	108	9.686	0.121	0.4	0.0289	0.0000	SURCHARGED
180 minute winter	225 Drain	108	9.525	0.015	0.4	0.0000	0.0000	OK
180 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
180 minute winter	S1	108	9.687	0.092	0.6	0.0071	0.0000	OK
180 minute winter	BioRetention	108	9.687	0.102	0.5	0.0902	0.0000	SURCHARGED
180 minute winter	S2	108	9.686	0.111	0.5	0.0177	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	2.3
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.5	
S2	1.003	0.4	

Results for 100 year +45% CC +10% A 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	S3	132	9.701	0.136	0.5	0.0324	0.0000	SURCHARGED
240 minute summer	225 Drain	136	9.526	0.016	0.5	0.0000	0.0000	OK
240 minute summer	RE1	136	9.702	0.002	0.0	0.0000	0.0000	OK
240 minute summer	S1	132	9.702	0.107	0.7	0.0083	0.0000	SURCHARGED
240 minute summer	BioRetention	132	9.702	0.117	0.6	0.1035	0.0000	SURCHARGED
240 minute summer	S2	132	9.701	0.126	0.6	0.0201	0.0000	SURCHARGED

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.5	2.8
RE1	1.000	0.0	
S1	1.001	0.6	
BioRetention	1.002	0.6	
S2	1.003	0.5	

Results for 100 year +45% CC +10% A 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	S3	140	9.658	0.093	0.4	0.0222	0.0000	OK
240 minute winter	225 Drain	140	9.524	0.014	0.4	0.0000	0.0000	OK
240 minute winter	RE1	4	9.700	0.000	0.0	0.0000	0.0000	OK
240 minute winter	S1	140	9.659	0.064	0.4	0.0050	0.0000	OK
240 minute winter	BioRetention	140	9.659	0.074	0.4	0.0654	0.0000	OK
240 minute winter	S2	140	9.659	0.084	0.4	0.0133	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	2.6
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 100 year +45% CC +10% A 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	S3	200	9.663	0.098	0.4	0.0233	0.0000	OK
360 minute summer	225 Drain	200	9.524	0.014	0.4	0.0000	0.0000	OK
360 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute summer	S1	200	9.663	0.068	0.5	0.0053	0.0000	OK
360 minute summer	BioRetention	200	9.663	0.078	0.5	0.0692	0.0000	OK
360 minute summer	S2	200	9.663	0.088	0.4	0.0140	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.4	2.7
RE1	1.000	0.0	
S1	1.001	0.5	
BioRetention	1.002	0.4	
S2	1.003	0.4	

Results for 100 year +45% CC +10% A 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S3	216	9.630	0.065	0.3	0.0154	0.0000	OK
360 minute winter	225 Drain	216	9.523	0.013	0.3	0.0000	0.0000	OK
360 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
360 minute winter	S1	216	9.630	0.035	0.3	0.0027	0.0000	OK
360 minute winter	BioRetention	216	9.630	0.045	0.3	0.0398	0.0000	OK
360 minute winter	S2	216	9.630	0.055	0.3	0.0087	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	3.0
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +45% CC +10% A 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	S3	256	9.640	0.075	0.3	0.0179	0.0000	OK
480 minute summer	225 Drain	256	9.523	0.013	0.3	0.0000	0.0000	OK
480 minute summer	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S1	256	9.641	0.046	0.4	0.0036	0.0000	OK
480 minute summer	BioRetention	256	9.640	0.055	0.4	0.0493	0.0000	OK
480 minute summer	S2	256	9.640	0.065	0.4	0.0104	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.6
RE1	1.000	0.0	
S1	1.001	0.4	
BioRetention	1.002	0.4	
S2	1.003	0.3	

Results for 100 year +45% CC +10% A 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	S3	256	9.623	0.058	0.3	0.0138	0.0000	OK
480 minute winter	225 Drain	256	9.523	0.013	0.3	0.0000	0.0000	OK
480 minute winter	RE1	8	9.700	0.000	0.0	0.0000	0.0000	OK
480 minute winter	S1	256	9.623	0.028	0.3	0.0022	0.0000	OK
480 minute winter	BioRetention	256	9.623	0.038	0.3	0.0339	0.0000	OK
480 minute winter	S2	256	9.623	0.048	0.3	0.0076	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.7
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +45% CC +10% A 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	S3	330	9.628	0.063	0.3	0.0150	0.0000	OK
600 minute summer	225 Drain	330	9.523	0.013	0.3	0.0000	0.0000	OK
600 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute summer	S1	330	9.628	0.033	0.3	0.0026	0.0000	OK
600 minute summer	BioRetention	330	9.628	0.043	0.3	0.0385	0.0000	OK
600 minute summer	S2	330	9.628	0.053	0.3	0.0085	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.7
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +45% CC +10% A 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	S3	360	9.601	0.036	0.2	0.0086	0.0000	OK
600 minute winter	225 Drain	360	9.521	0.011	0.2	0.0000	0.0000	OK
600 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
600 minute winter	S1	285	9.609	0.014	0.2	0.0011	0.0000	OK
600 minute winter	BioRetention	360	9.601	0.016	0.2	0.0143	0.0000	OK
600 minute winter	S2	360	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	2.5
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +45% CC +10% A 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	S3	375	9.621	0.056	0.3	0.0132	0.0000	OK
720 minute summer	225 Drain	375	9.522	0.012	0.3	0.0000	0.0000	OK
720 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S1	375	9.621	0.026	0.3	0.0020	0.0000	OK
720 minute summer	BioRetention	375	9.621	0.036	0.3	0.0318	0.0000	OK
720 minute summer	S2	375	9.621	0.046	0.3	0.0073	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.3	2.5
RE1	1.000	0.0	
S1	1.001	0.3	
BioRetention	1.002	0.3	
S2	1.003	0.3	

Results for 100 year +45% CC +10% A 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	S3	420	9.601	0.036	0.2	0.0086	0.0000	OK
720 minute winter	225 Drain	420	9.521	0.011	0.2	0.0000	0.0000	OK
720 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
720 minute winter	S1	345	9.609	0.014	0.2	0.0011	0.0000	OK
720 minute winter	BioRetention	420	9.601	0.016	0.2	0.0143	0.0000	OK
720 minute winter	S2	420	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	2.9
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +45% CC +10% A 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	S3	525	9.601	0.036	0.2	0.0086	0.0000	OK
960 minute summer	225 Drain	525	9.521	0.011	0.2	0.0000	0.0000	OK
960 minute summer	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S1	480	9.609	0.014	0.2	0.0011	0.0000	OK
960 minute summer	BioRetention	525	9.601	0.016	0.2	0.0143	0.0000	OK
960 minute summer	S2	525	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	2.3
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +45% CC +10% A 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	S3	555	9.586	0.021	0.1	0.0050	0.0000	OK
960 minute winter	225 Drain	585	9.518	0.008	0.1	0.0000	0.0000	OK
960 minute winter	RE1	15	9.700	0.000	0.0	0.0000	0.0000	OK
960 minute winter	S1	315	9.604	0.009	0.1	0.0007	0.0000	OK
960 minute winter	BioRetention	315	9.594	0.009	0.1	0.0084	0.0000	OK
960 minute winter	S2	630	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	2.3
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	

Results for 100 year +45% CC +10% A 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.0

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	S3	750	9.601	0.036	0.2	0.0085	0.0000	OK
1440 minute summer	225 Drain	750	9.521	0.011	0.2	0.0000	0.0000	OK
1440 minute summer	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute summer	S1	750	9.609	0.014	0.2	0.0011	0.0000	OK
1440 minute summer	BioRetention	750	9.601	0.016	0.2	0.0140	0.0000	OK
1440 minute summer	S2	750	9.601	0.026	0.2	0.0041	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.2	2.5
RE1	1.000	0.0	
S1	1.001	0.2	
BioRetention	1.002	0.2	
S2	1.003	0.2	

Results for 100 year +45% CC +10% A 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S3	960	9.586	0.021	0.1	0.0050	0.0000	OK
1440 minute winter	225 Drain	840	9.518	0.008	0.1	0.0000	0.0000	OK
1440 minute winter	RE1	30	9.700	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	570	9.604	0.009	0.1	0.0007	0.0000	OK
1440 minute winter	BioRetention	540	9.594	0.009	0.1	0.0084	0.0000	OK
1440 minute winter	S2	570	9.586	0.011	0.1	0.0018	0.0000	OK

US Node	Link	Outflow (l/s)	Discharge Vol (m³)
S3	1.004	0.1	2.9
RE1	1.000	0.0	
S1	1.001	0.1	
BioRetention	1.002	0.1	
S2	1.003	0.1	