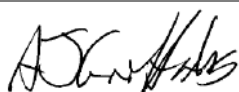




45 The Broadway, Haywards Heath, RH16 3AS
Drainage Strategy

Revision	Status	Description	Issued by	Checked	Date
P01	S2 – For Information	First issue	R White	C Blagbrough	04/08/2025
P02	S2 – For Information	FEH22 and 45% used	R White	A Griffiths	25/06/2026
P03	S2 – For Information	Southern Water references added	R White	A Griffiths	13/08/2026
P04	S2 – For Information	Schedule of works updated	R White	A Griffiths	17/09/2026

Prepared by:	Signed:	Date
R White		04/08/2025

Approved by:	Signed:	Date
A Griffiths		04/08/2025



45 THE BROADWAY, HAYWARDS HEATH, RH16 3AS

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1 Drainage Strategy		
Item	Details	Reference /comment
Method of Foul Water Discharge	Foul water flows are to drain to the existing foul water connection, noted as 3.8m deep in the site CCTV survey.	The existing connection remains to serve the new flats
Foul Water Discharge Volumes	British Water "Flows and load 4" estimates the flows per person to be 150 litres/person/day (higher than the water usage in a new dwelling of 125 litres/person/day required by Building Regulations Part G. For groups of small 1 and 2-bedroom flats, allow 3 people for a flat with 1 bedroom and 4 people for a flat with 2 bedrooms. So, for 4 one-bedroom flats and 5 two-bedroom flats: $(1 \times 3) + (3 \times 4) = 15 \text{ People}$ 15 domestic residents can be expected to generate a flow of 2,250 litres per day at 150 l per person (British Water Flows and Loads 4) Building regulations require 110 litres per person per day, reducing this to 1,650 l/day	
Method of Surface Water Discharge	The surface water drainage design proposed for the new dwellings is to follow the drainage hierarchy to ensure the site reflects the natural flows from the site as closely as possible: 1. Rainwater reuse Water butts are provided where landscaping is likely to need irrigation. Internal rainwater recycling is being utilised where practical. However, this cannot be the only surface water solution, as we cannot guarantee that harvested water will be reused. 2. Infiltration There is no space further than >5m from a habitable dwelling, as required by the Soil investigation (see appendix B). 3. Discharge to Surface Water or a Watercourse There are no watercourses close to the site 4. Discharge to a Surface Water sewer or a Highway Drain – Existing surface water connections to the foul system will be broken out, and redirected to the surface water system at a reduced rate of 0.6l/s (as close as is practical to a greenfield rate. 5. Discharge to a Combined Sewer There are no combined sewers within the locality 6. Discharge to a Foul Sewer Connections to the foul are being removed as part of the works. Surface water falling onto the roof and hardstanding areas are to be drained to a new flow control chamber in the site entrance.	The new connection will be subject to S106 and S104 connection consent from Southern Water.

Our Ref: [Keywords]
 Date: [Publish Date]

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	Flows will be conveyed via a piped network and restricted to 0.6 l/s by a 20mm orifice plate flow control. Both attenuation tanks and permeable surfaces will be utilised for storage. The on-site system will be privately maintained by the freehold owners or their representatives in accordance with the guidance to the rear of this document. Due to limitations of the FLOW software used for the calculations, the Surface Water being pumped is shown at a higher elevation than the downstream pipework, with a limited discharge set to the pump rate.	
Local Ground Conditions	A Site Investigation Report (Ref: LS8293, Dated 26TH FEBRUARY 2025) has been undertaken on site by Land Science and found the site to be underlain by made ground to depth. This is unsuitable for infiltration, as it could impact the stability of the building and surroundings.	
Infiltration Rate	No infiltration testing has been carried out, as there is insufficient space greater than 5m from the building.	Infiltration was not used for this design.
Greenfield Rates	The peak allowable discharge rate from the development to surface waters or sewers for the 50% AEP event shall be limited to the equivalent 50% AEP greenfield runoff rate, or 3 l/s/ha, whichever is the greater. 0.03x3 l/s = 0.09 l/s 1 in 1 year = 0.1 l/s 1 in 2 year = 0.2 l/s 1 in 30 year = 0.4 l/s 1 in 100 year = 0.6 l/s These cannot practically be reached without significant risk of blockage. The lowest achievable rate is 0.6 l/s National standards for SUDS state "For previously developed sites a 'relaxation factor' shall be applied to the target 50% and 1% AEP greenfield runoff rates where evidence is provided that demonstrates why greenfield runoff or 3l/s/ha rates cannot be achieved and this is agreed with the approving body, This relaxation factor shall be no greater than 5 times the greenfield runoff rate." A rate of 0.6 l/s is 3 times the 50% rate and should be acceptable given the previous usage, and removal of surface water from the foul system.	
Surface Water Calculations	The surface water drainage system has been designed for a 1 in 100-year event, plus an allowance of 40% for climate change.	The total impermeable

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	Impermeable areas have had an additional 10% added for urban creep in line with CIRIA C753. Contributing Areas Roof Areas = 160 m² Footpath Area = 120 m² Total Area = 280 m² Urban creep not applied due to a 100% impermeable area.	area for the site is 0.028 ha																
Groundwater	The site investigation report confirmed that the natural water table was not encountered during the intrusive works.																	
Water Quality	Where flows from the site are exclusively from pedestrian surfaces and roofs. Silt traps will provide sufficient improvements to the water quality in line with guidance in CIRIA C753. The parking area should be permeable paving to allow sufficient treatment.																	
Exceedance Flows	It is proposed that finished floor levels will be raised 150mm above the average ground level to mitigate against the risk of any surface water flooding. Exceedance flows will match the existing flow at a surface level towards the rear. The proposed surface water drainage measures will be designed to contain the peak storm event that can be expected for a 1 in 100-year situation. A 40% allowance has already been applied to the site to account for future climate change, making on-site flooding unlikely.																	
Timetable for implementation	<table><thead><tr><th>Schedule of works</th><th>Expected Duration</th></tr></thead><tbody><tr><td>Rear attenuation tank installation</td><td>Groundworks 2 days, attenuation tank assembly 2 days, back fill 1 day (5 days).</td></tr><tr><td>Pumping station installation</td><td>1 day.</td></tr><tr><td>Rising main and IC's installation</td><td>Groundworks 1 day, installation and back fill 1 day (2 days).</td></tr><tr><td>New private FW connection and IC's</td><td>2 days.</td></tr><tr><td>Front attenuation tank installation</td><td>Groundworks 4 days, attenuation tank installation 3 days, finishes 3 days (10 days).</td></tr><tr><td>New SW connection in main road</td><td>Guided by Southern Water's lead in time and job completion. Unknown</td></tr><tr><td>TOTAL</td><td>20 days + Southern Water's works duration.</td></tr></tbody></table>	Schedule of works	Expected Duration	Rear attenuation tank installation	Groundworks 2 days, attenuation tank assembly 2 days, back fill 1 day (5 days).	Pumping station installation	1 day.	Rising main and IC's installation	Groundworks 1 day, installation and back fill 1 day (2 days).	New private FW connection and IC's	2 days.	Front attenuation tank installation	Groundworks 4 days, attenuation tank installation 3 days, finishes 3 days (10 days).	New SW connection in main road	Guided by Southern Water's lead in time and job completion. Unknown	TOTAL	20 days + Southern Water's works duration.	
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TOTAL	20 days + Southern Water's works duration.																	

Permissions from drainage undertaker	Sectional approval for the S106 and S104 has been sought from Southern Water. Southern Water reference is DSA000056651 A response is expected shortly. On the basis that the surface water flow rates are reduced as a result of the works and are being removed from the foul, foul flows are routed to the foul sewer, approval is considered extremely likely in the coming weeks.	
Fluvial Flood Risk/ Environment Agency Flood Mapping	The Environment Agency flood map for the development site suggests that the site wholly falls within Flood zone 1, which is defined as land assessed as having a less than 1 in 1000 annual probability of river flooding in any one year. The surface water flooding maps indicate a medium risk of flooding predevelopment. However, the attenuation provided for events up to and including the 1 in 100 year plus climate chance reduces this to low.	
SuDS Maintenance	During construction, the SuDS systems will be maintained by the contractor. Upon practical completion, the SuDS drainage system, inclusive of paving, bio retention and silt traps, is to be maintained by the owner of the freehold or their appointed representative(s).	Refer to Appendix A for the suggested SuDS Maintenance schedule

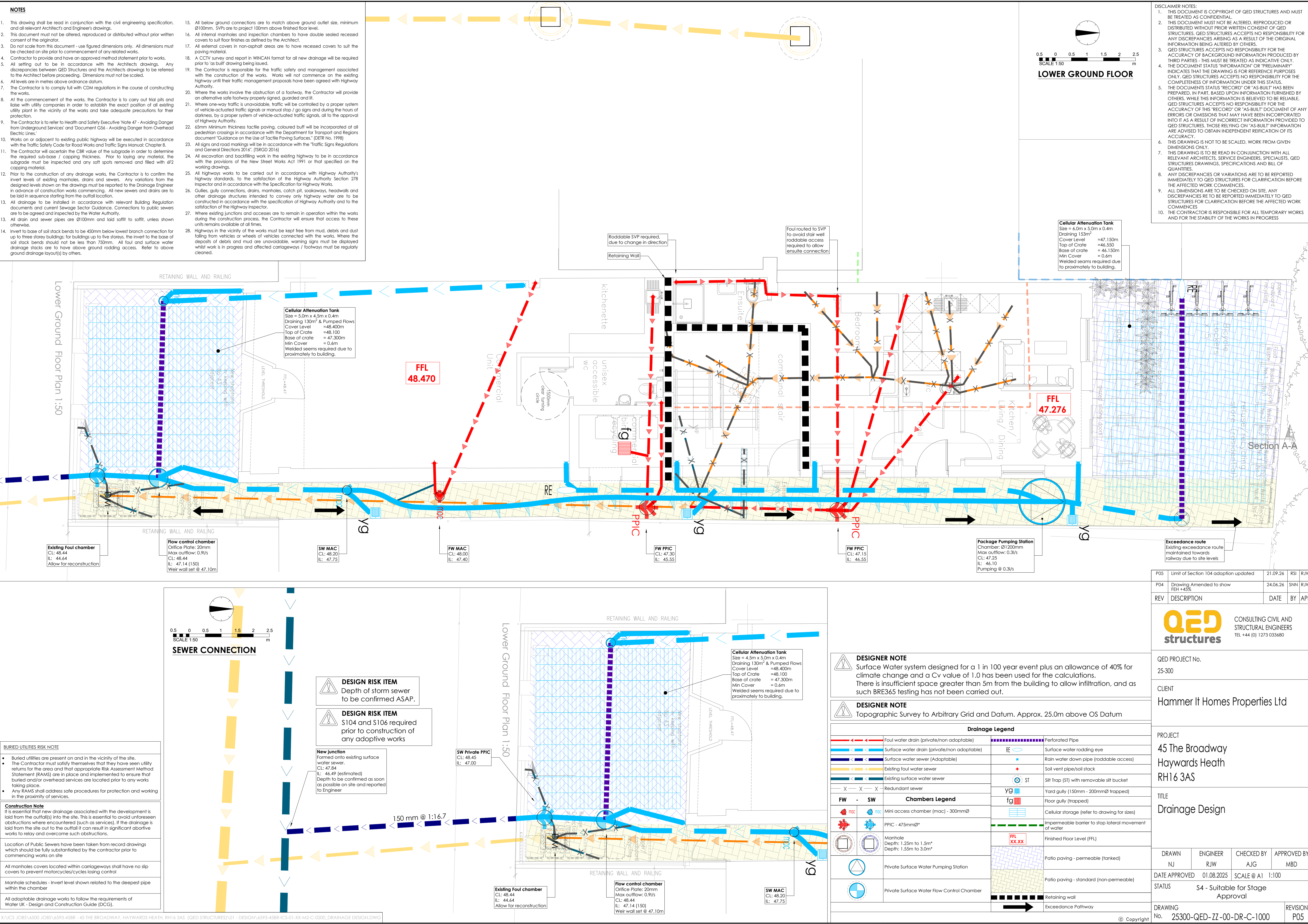
Table 1 Drainage Strategy

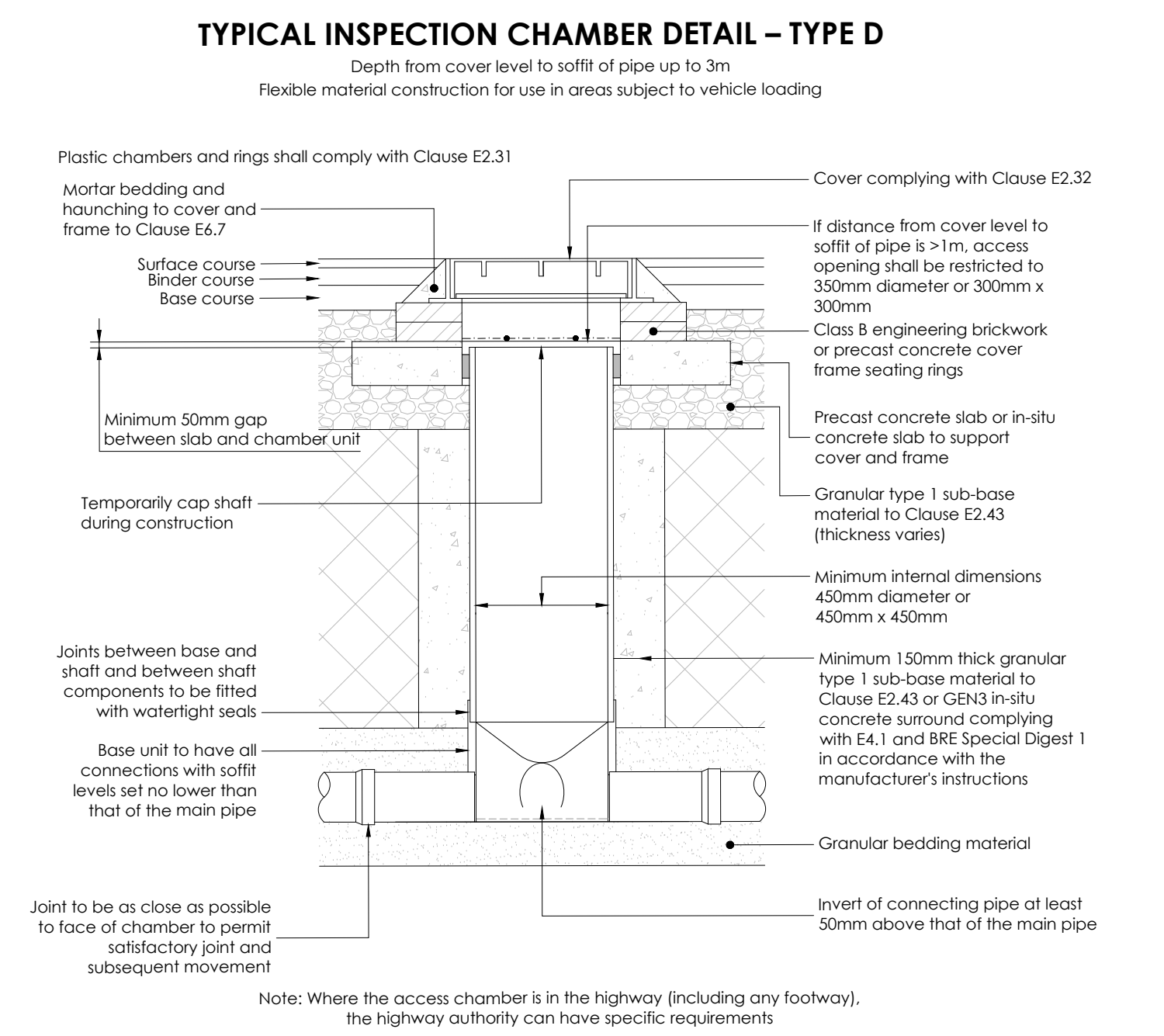
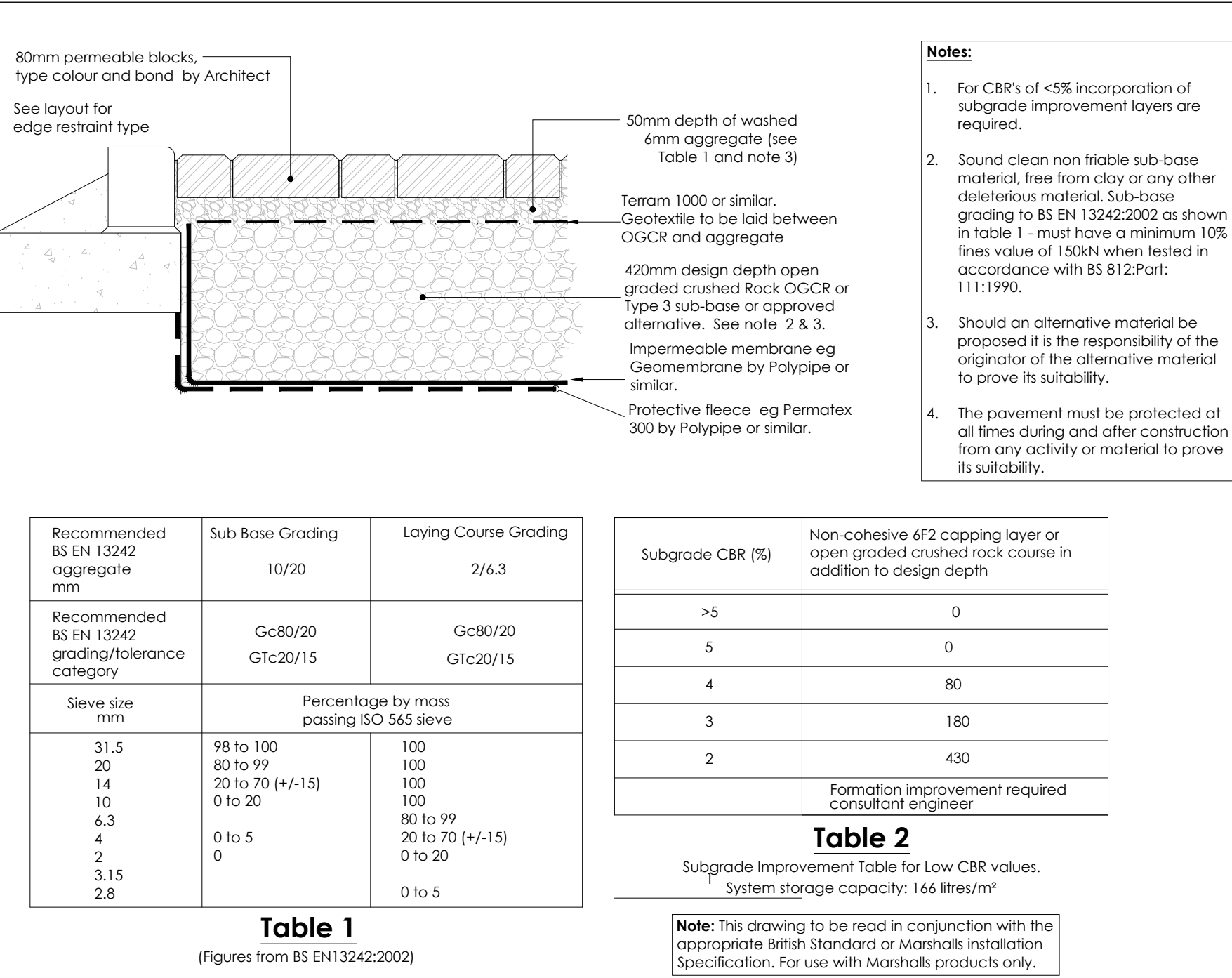
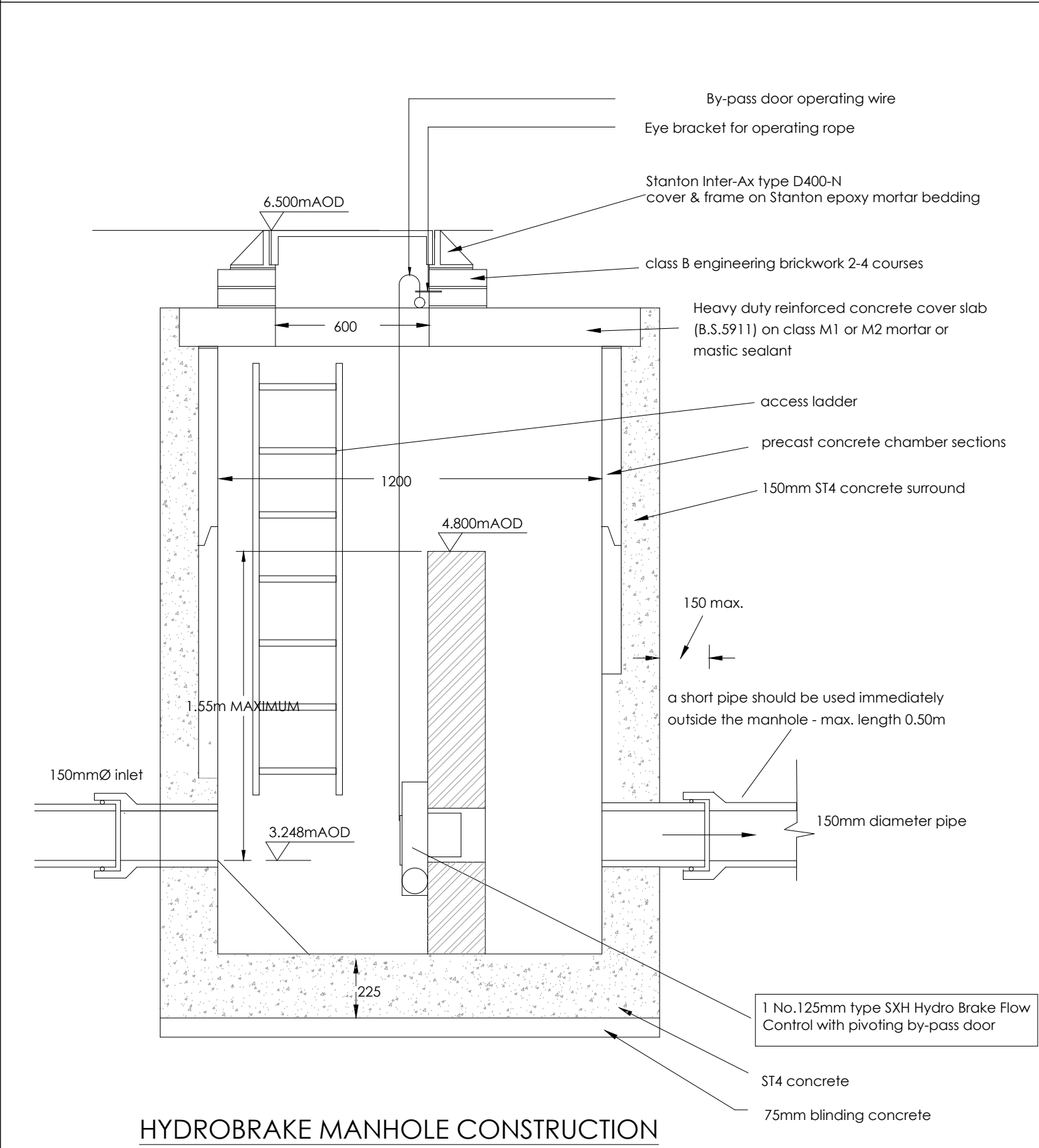
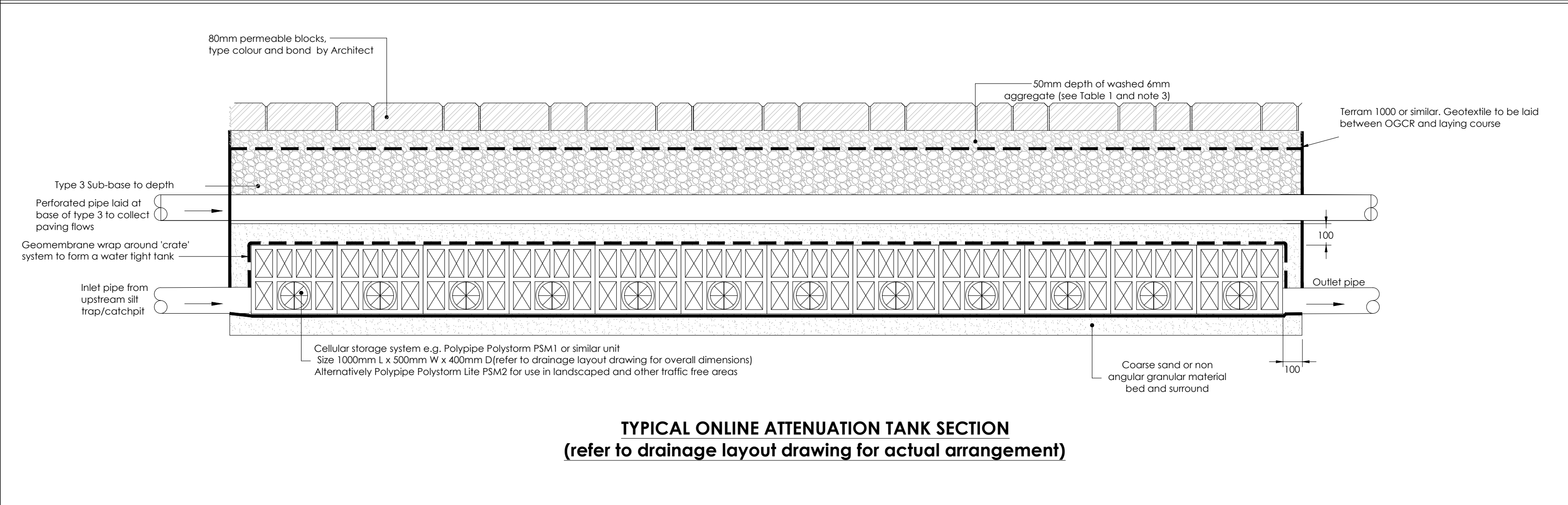
2 Appendix A – Maintenance manual

Item	Required Maintenance	Frequency
Pipe and chambers	CCTV camera survey, flush, descale, repair as necessary	5 Years or upon poor performance
Rainwater gardens	Litter and debris removal.	Monthly (or as required).
	Grass cutting – to retain grass height within specified design range.	Monthly (during growing season), or as required.
	Manage other vegetation and remove nuisance plants.	Monthly (at start, then as required).
	Check for poor vegetation growth due to lack of sunlight or dropping of leaf litter and cut back adjacent vegetation where possible.	Annually.
	Re-seed areas of poor vegetation growth. Alter plant types to better suit conditions, if required.	Annually, or if bare soil is exposed over 10 % or more of the swale treatment area.
	Repair erosion or other damage by re-turfing or reseeding.	As required.
	Re-level uneven surfaces and reinstate design levels.	As required.
	Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface.	As required.
	Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip.	As required.
	Remove and dispose of oils or petrol residues using safe standard practices.	As required.
	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly.
	Inspect infiltration surfaces for ponding, compaction, silt accumulation. Record areas where water is ponding for > 48 hours.	Monthly, or when required.
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies	Half yearly.
Silt traps and catchpits	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then six monthly
	Debris removal from catchment surface (where may cause risks to performance)	Monthly
	Inspection of silt traps and catch pits to assess silt accumulation	Monthly (and after large storms)
	Removal of accumulated silt from silt trap and catch pit sumps	Annually, or as required
	Repair/rehabilitation of inlets, outlet, overflows and vents	As required
	Inspect/check all inlets, outlets, and overflows to ensure that they are in good condition and operating as designed	Annually and after large storms
Attenuation Storage Tanks	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
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment from pre-treatment structures and/or internal forebays	Annually, or as required

	Repair/rehabilitate inlets, outlet, overflows and vents	As required
	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required
Flow control chambers and devices	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then six monthly
	Debris removal from catchment surface (where may cause risks to performance)	Monthly
	Inspection of flow control chamber to assess if system is draining down correctly and that the orifice or flow control device is not blocked. Assess if there are any silt accumulations in the chamber sump.	Monthly (and after large storms)
	Removal of accumulated silt from silt trap and catchpit sumps	Annually, or as required
	Repair/rehabilitation of inlets, outlet, overflows and vents	As required
	Inspect/check all inlets, outlets, and overflows to ensure that they are in good condition and operating as designed	Annually and after large storms

Table 2 SuDS Maintenance





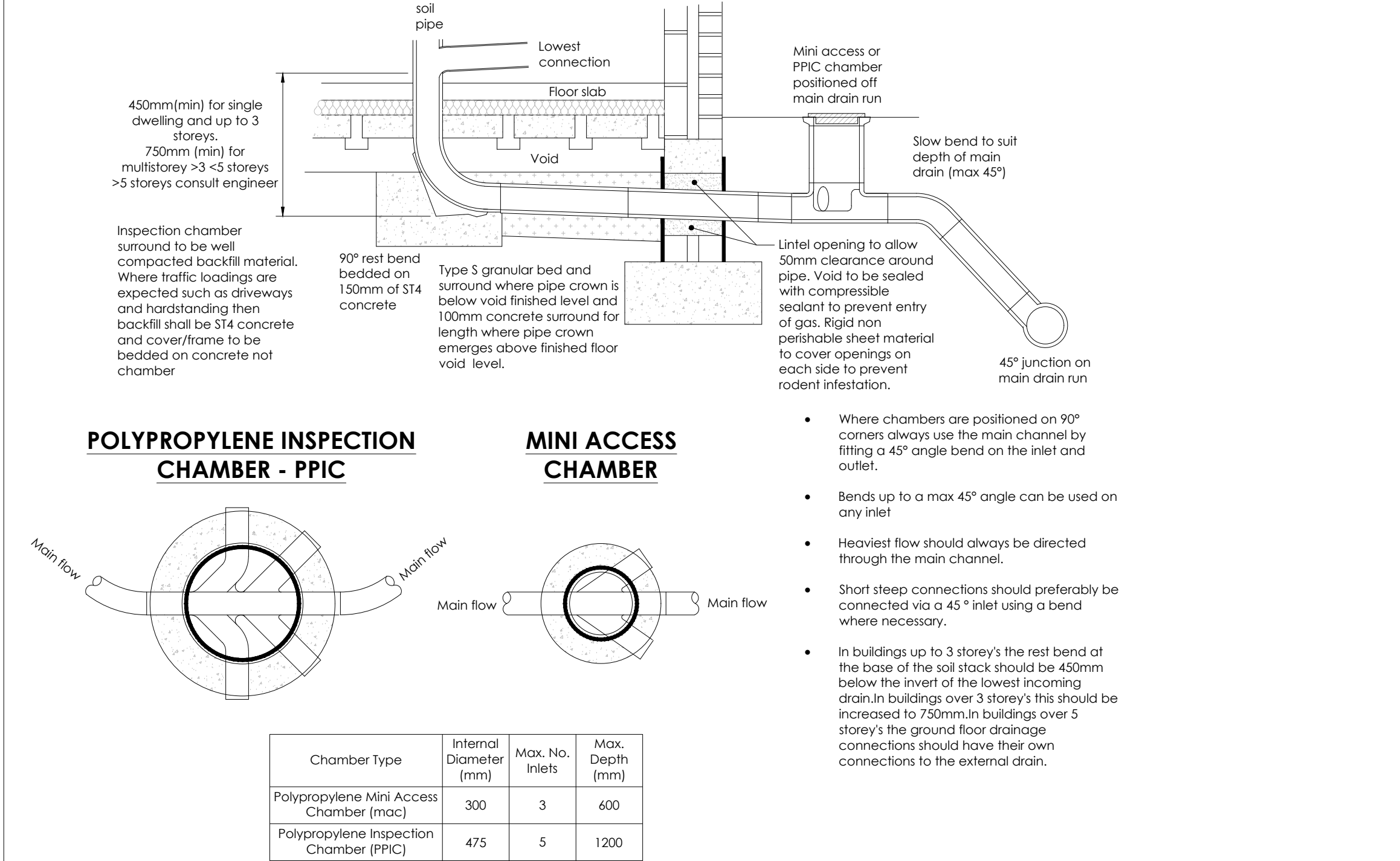
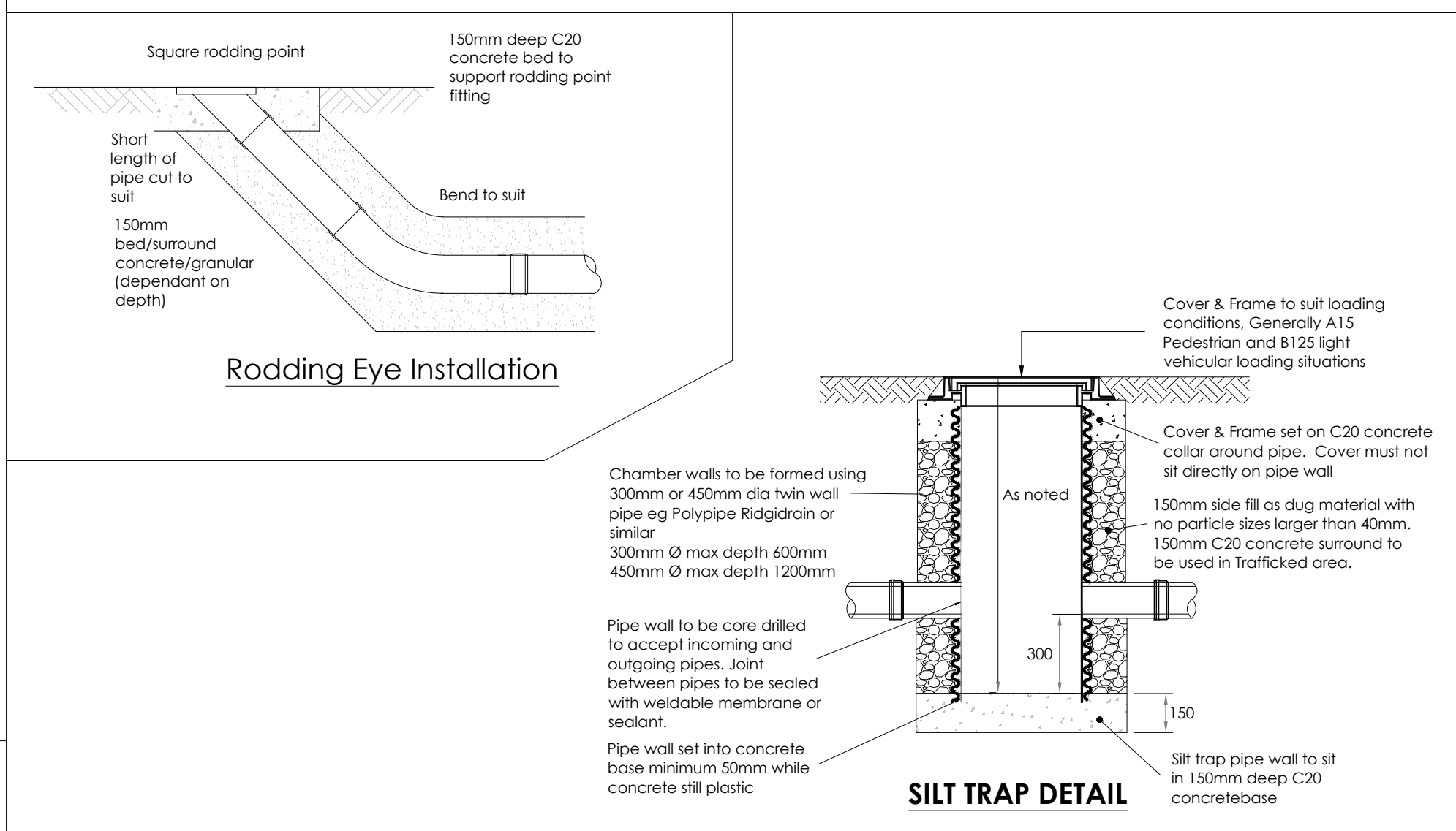
Nominal Bore of Pipe (mm)	Alternative Aggregate Sizes (mm)		CF Value Max
	Single-Sized	Graded	
100-150	10	-	0.2
225-300	10 or 14	14 to 5	0.2
375-525	10, 14 or 20	14 to 5 or 20 to 5	0.2
Exceeding	14, 20 or 40	14 to 5 or 20 to 5 or 40 to 5	0.15 0.5

PIPE BEDDING TABLE

Pipe nominal size (DN)	Pipe Bedding Requirement (mm)
100	10 nominal single size
over100	10 or 14mm nominal single size or 14mm to 5mm graded
150	10, 14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
over150-300	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded
over 300 to 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded
over 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded

GRANULAR BEDDING AND SIDEFILL MATERIAL GRADINGS

PIPE DIA	TRENCH WIDTH	Tw	PIPE DIA	TRENCH WIDTH	Tw
150	600	675	1500	1450	
225	700	750	1500	1450	
300	750	825	1600	1900	
375	1050	900	2050	2300	
450	1150	1050	2050	2300	
525	1200	1200	2300	2300	
600	1350				



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P02	Flow control updated to PCC ring	01/08/25	AA	RJW
P01	Issued for information	01/08/25	AA	RJW
REV	DESCRIPTION	DATE	BY	APP

CONSULTING CIVIL AND STRUCTURAL ENGINEERS
TEL +44 (0) 1273 033680

QED PROJECT No.
25-300

CLIENT
Hammer It Homes Properties Ltd

PROJECT
45 The Broadway
Haywards Heath
RH16 3AS

TITLE
Construction Details

DRAWN NJ	ENGINEER RJW	CHECKED BY AJG	APPROVED BY MBD
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DATE APPROVED 01.08.2025 SCALE @ A1 1:20

STATUS S2 - Suitable for Information

DRAWING No. 25300-QED-ZZ-00-DR-C-1001	REVISION P02
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Network: Storm Network

Richard White

13/08/2026

Page 1

Design Settings

Rainfall Methodology

FEH-22

Return Period (years)

100

Additional Flow (%)

40

CV

1.000

Time of Entry (mins)

5.00

Maximum Time of Concentration (mins)

30.00

Maximum Rainfall (mm/hr)

50.0

Minimum Velocity (m/s)

1.00

Connection Type

Level Soffits

Minimum Backdrop Height (m)

0.200

Preferred Cover Depth (m)

0.500

Include Intermediate Ground

✓

Enforce best practice design rules

✓

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

PPS

MAC

21.000

0.600

46.100

47.750

NA

NA

NA

5.07

50.0

2

MAC

OP

6.000

0.600

47.750

47.140

0.610

9.8

150

5.10

50.0

3

OP

Demarcation

2.000

0.600

47.140

47.000

0.140

14.3

150

5.11

50.0

4

Demarcation

Sewer

8.000

0.600

47.000

46.690

0.310

25.8

150

5.18

50.0

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

4.914

38.6

3.8

1.050

0.350

0.015

0.0

21

3.154

2

3.231

57.1

5.3

0.300

1.150

0.021

0.0

31

2.030

3

2.679

47.3

7.1

1.150

1.300

0.028

0.0

39

1.929

4

1.990

35.2

7.1

1.300

1.000

0.028

0.0

45

1.559

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

21.000

2.5

100

Circular_Default Sewer Type

47.250

46.100

1.050

48.200

47.750

0.350

2

6.000

9.8

150

Circular_Default Sewer Type

48.200

47.750

0.300

48.440

47.140

1.150

3

2.000

14.3

150

Circular_Default Sewer Type

48.440

47.140

1.150

48.450

47.000

1.300

4

8.000

16.7

150

Circular_Default Sewer Type

48.450

47.000

1.300

47.840

46.565

1.000

Link

US Node

Dia (mm)

Width (mm)

Node Type

MH Type

DS Node

Dia (mm)

Width (mm)

Node Type

MH Type

1

PPS

1200

Manhole

Private

MAC

450

Manhole

Private

2

MAC

450

Manhole

Private

OP

1000

Manhole

Private

3

OP

1000

Manhole

Private

Demarcation

600

450

Manhole

Private

4

Demarcation

600

450

Manhole

Private

Sewer

150

Manhole

Private

Manhole Schedule

Node

CL (m)

Depth (m)

Dia (mm)

Width (mm)

Connections

Link

IL (m)

Dia (mm)

PPS

47.250

1.150

1200

MAC

48.200

0.450

450

01

46.100

100

OP

48.440

1.300

1000

01

47.750

150

02

47.140

150

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Page 2

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
Demarcation	48.450	1.450	600	450	1	3	47.000	150
Sewer	47.840	1.150	150		0 1	4 4	47.000 46.690	150 150

Simulation Settings

Rainfall Methodology	FEH-22	Summer CV	1.000	Analysis Speed	Normal	Drain Down Time (mins)	240	Starting Level (m)		Check Discharge Volume	x
Rainfall Events	Singular	Winter CV	1.000	Skip Steady State	x	Additional Storage (m³/ha)	20.0	Check Discharge Rate(s)	x		

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 %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	0	0	0	100	45	0	0
2	0	0	0	100	0	0	0				

Node PPS Online Pump Control

Flap Valve	x	Replaces Downstream Link	✓	Invert Level (m)	46.100	Switch on depth (m)	0.200	Switch off depth (m)	0.001
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Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.010	0.300	0.500	0.300	1.000	0.300

Node OP Online Orifice Control

Flap Valve	x	Replaces Downstream Link	x	Invert Level (m)	47.140	Diameter (m)	0.020	Discharge Coefficient	0.600
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Node PPS Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	46.100	Pit Width (m)	5.000	Depth (m)	0.400	Number Required	1
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)		Pit Length (m)	6.000	Inf Depth (m)			

Node OP Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	47.140	Pit Width (m)	5.000	Depth (m)	0.400	Number Required	1
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)		Pit Length (m)	4.500	Inf Depth (m)			

Other (defaults)

Entry Loss (manhole)	0.250	Exit Loss (manhole)	0.250	Entry Loss (junction)	0.000	Exit Loss (junction)	0.000	Apply Recommended Losses	x	Flood Risk (m)	0.300
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Results for 1 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	PPS	21	46.126	0.026	1.8	0.7745	0.0000	OK
15 minute summer	MAC	9	47.762	0.012	0.7	0.0052	0.0000	OK
15 minute summer	OP	18	47.167	0.027	1.5	0.6119	0.0000	OK
15 minute summer	Demarcation	19	47.006	0.006	0.1	0.0017	0.0000	OK
15 minute summer	Sewer	19	46.696	0.006	0.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	PPS	Pump	MAC	0.0				
15 minute summer	MAC	2	OP	0.7	1.258	0.012	0.0070	
15 minute summer	OP	3	Demarcation	0.1	0.509	0.002	0.0004	
15 minute summer	Demarcation	4	Sewer	0.1	0.450	0.003	0.0020	0.0004

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Results for 1 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00% <table><thead><tr><th>Node Event</th><th>US Node</th><th>Peak (mins)</th><th>Level (m)</th><th>Depth (m)</th><th>Inflow (l/s)</th><th>Node Vol (m³)</th><th>Flood (m³)</th><th>Status</th></tr></thead><tbody><tr><td>60 minute summer</td><td>PPS</td><td>64</td><td>46.143</td><td>0.043</td><td>1.2</td><td>1.2706</td><td>0.0000</td><td>OK</td></tr><tr><td>60 minute summer</td><td>MAC</td><td>33</td><td>47.760</td><td>0.010</td><td>0.5</td><td>0.0043</td><td>0.0000</td><td>OK</td></tr><tr><td>60 minute summer</td><td>OP</td><td>60</td><td>47.182</td><td>0.042</td><td>1.1</td><td>0.9329</td><td>0.0000</td><td>OK</td></tr><tr><td>60 minute summer</td><td>Demarcation</td><td>60</td><td>47.007</td><td>0.007</td><td>0.1</td><td>0.0020</td><td>0.0000</td><td>OK</td></tr><tr><td>60 minute summer</td><td>Sewer</td><td>60</td><td>46.697</td><td>0.007</td><td>0.1</td><td>0.0000</td><td>0.0000</td><td>OK</td></tr></tbody></table> <table><thead><tr><th>Link Event</th><th>US Node</th><th>Link</th><th>DS Node</th><th>Outflow (l/s)</th><th>Velocity (m/s)</th><th>Flow/Cap</th><th>Link Vol (m³)</th><th>Discharge Vol (m³)</th></tr></thead><tbody><tr><td>60 minute summer</td><td>PPS</td><td>Pump</td><td>MAC</td><td>0.0</td><td></td><td></td><td></td><td></td></tr><tr><td>60 minute summer</td><td>MAC</td><td>2</td><td>OP</td><td>0.5</td><td>0.999</td><td>0.009</td><td>0.0125</td><td></td></tr><tr><td>60 minute summer</td><td>OP</td><td>3</td><td>Demarcation</td><td>0.1</td><td>0.543</td><td>0.003</td><td>0.0006</td><td></td></tr><tr><td>60 minute summer</td><td>Demarcation</td><td>4</td><td>Sewer</td><td>0.1</td><td>0.489</td><td>0.004</td><td>0.0024</td><td>1.1</td></tr></tbody></table>				Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	60 minute summer	PPS	64	46.143	0.043	1.2	1.2706	0.0000	OK	60 minute summer	MAC	33	47.760	0.010	0.5	0.0043	0.0000	OK	60 minute summer	OP	60	47.182	0.042	1.1	0.9329	0.0000	OK	60 minute summer	Demarcation	60	47.007	0.007	0.1	0.0020	0.0000	OK	60 minute summer	Sewer	60	46.697	0.007	0.1	0.0000	0.0000	OK	Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)	60 minute summer	PPS	Pump	MAC	0.0					60 minute summer	MAC	2	OP	0.5	0.999	0.009	0.0125		60 minute summer	OP	3	Demarcation	0.1	0.543	0.003	0.0006		60 minute summer	Demarcation	4	Sewer	0.1	0.489	0.004	0.0024	1.1
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Results for 1 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	PPS	63	46.144	0.044	0.9	1.3187	0.0000	OK
60 minute winter	MAC	33	47.759	0.009	0.4	0.0039	0.0000	OK
60 minute winter	OP	59	47.180	0.040	0.8	0.8820	0.0000	OK
60 minute winter	Demarcation	60	47.007	0.007	0.1	0.0019	0.0000	OK
60 minute winter	Sewer	60	46.697	0.007	0.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PPS	Pump	MAC	0.0				
60 minute winter	MAC	2	OP	0.4	0.999	0.007	0.0116	
60 minute winter	OP	3	Demarcation	0.1	0.538	0.003	0.0005	
60 minute winter	Demarcation	4	Sewer	0.1	0.484	0.004	0.0024	1.0

Results for 1 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	PPS	126	46.165	0.065	1.0	1.9430	0.0000	OK
120 minute summer	MAC	64	47.759	0.009	0.4	0.0039	0.0000	OK
120 minute summer	OP	98	47.192	0.052	0.9	1.1630	0.0000	OK
120 minute summer	Demarcation	100	47.008	0.008	0.2	0.0021	0.0000	OK
120 minute summer	Sewer	100	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	PPS	Pump	MAC	0.0				
120 minute summer	MAC	2	OP	0.4	0.739	0.007	0.0168	
120 minute summer	OP	3	Demarcation	0.2	0.563	0.004	0.0006	
120 minute summer	Demarcation	4	Sewer	0.2	0.509	0.005	0.0027	1.5

Results for 1 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	PPS	124	46.164	0.064	0.7	1.9192	0.0000	OK
120 minute winter	MAC	62	47.758	0.008	0.3	0.0034	0.0000	OK
120 minute winter	OP	100	47.191	0.051	0.6	1.1376	0.0000	OK
120 minute winter	Demarcation	102	47.008	0.008	0.2	0.0021	0.0000	OK
120 minute winter	Sewer	102	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	PPS	Pump	MAC	0.0				
120 minute winter	MAC	2	OP	0.3	0.605	0.005	0.0164	
120 minute winter	OP	3	Demarcation	0.2	0.561	0.004	0.0006	
120 minute winter	Demarcation	4	Sewer	0.2	0.507	0.005	0.0027	1.6

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Results for 1 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00% <table><thead><tr><th>Node Event</th><th>US Node</th><th>Peak (mins)</th><th>Level (m)</th><th>Depth (m)</th><th>Inflow (l/s)</th><th>Node Vol (m³)</th><th>Flood (m³)</th><th>Status</th></tr></thead><tbody><tr><td>180 minute summer</td><td>PPS</td><td>188</td><td>46.183</td><td>0.083</td><td>0.8</td><td>2.4951</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>MAC</td><td>92</td><td>47.758</td><td>0.008</td><td>0.3</td><td>0.0034</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>OP</td><td>136</td><td>47.195</td><td>0.055</td><td>0.7</td><td>1.2205</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>136</td><td>47.008</td><td>0.008</td><td>0.2</td><td>0.0021</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>Sewer</td><td>136</td><td>46.698</td><td>0.008</td><td>0.2</td><td>0.0000</td><td>0.0000</td><td>OK</td></tr></tbody></table> <table><thead><tr><th>Link Event</th><th>US Node</th><th>Link</th><th>DS Node</th><th>Outflow (l/s)</th><th>Velocity (m/s)</th><th>Flow/Cap</th><th>Link Vol (m³)</th><th>Discharge Vol (m³)</th></tr></thead><tbody><tr><td>180 minute summer</td><td>PPS</td><td>Pump</td><td>MAC</td><td>0.0</td><td></td><td></td><td></td><td></td></tr><tr><td>180 minute summer</td><td>MAC</td><td>2</td><td>OP</td><td>0.3</td><td>0.731</td><td>0.005</td><td>0.0180</td><td></td></tr><tr><td>180 minute summer</td><td>OP</td><td>3</td><td>Demarcation</td><td>0.2</td><td>0.568</td><td>0.004</td><td>0.0006</td><td></td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>4</td><td>Sewer</td><td>0.2</td><td>0.514</td><td>0.005</td><td>0.0028</td><td>1.7</td></tr></tbody></table>				Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	180 minute summer	PPS	188	46.183	0.083	0.8	2.4951	0.0000	OK	180 minute summer	MAC	92	47.758	0.008	0.3	0.0034	0.0000	OK	180 minute summer	OP	136	47.195	0.055	0.7	1.2205	0.0000	OK	180 minute summer	Demarcation	136	47.008	0.008	0.2	0.0021	0.0000	OK	180 minute summer	Sewer	136	46.698	0.008	0.2	0.0000	0.0000	OK	Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)	180 minute summer	PPS	Pump	MAC	0.0					180 minute summer	MAC	2	OP	0.3	0.731	0.005	0.0180		180 minute summer	OP	3	Demarcation	0.2	0.568	0.004	0.0006		180 minute summer	Demarcation	4	Sewer	0.2	0.514	0.005	0.0028	1.7
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Results for 1 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	PPS	184	46.182	0.082	0.6	2.4472	0.0000	OK
180 minute winter	MAC	80	47.757	0.007	0.2	0.0028	0.0000	OK
180 minute winter	OP	140	47.191	0.051	0.5	1.1369	0.0000	OK
180 minute winter	Demarcation	144	47.008	0.008	0.2	0.0021	0.0000	OK
180 minute winter	Sewer	144	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	PPS	Pump	MAC	0.0				
180 minute winter	MAC	2	OP	0.2	0.731	0.004	0.0163	
180 minute winter	OP	3	Demarcation	0.2	0.561	0.004	0.0006	
180 minute winter	Demarcation	4	Sewer	0.2	0.507	0.005	0.0027	1.0000

Results for 1 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	PPS	248	46.197	0.097	0.7	2.9032	0.0000	OK
240 minute summer	MAC	124	47.758	0.008	0.3	0.0034	0.0000	OK
240 minute summer	OP	172	47.195	0.055	0.6	1.2240	0.0000	OK
240 minute summer	Demarcation	172	47.008	0.008	0.2	0.0021	0.0000	OK
240 minute summer	Sewer	172	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	PPS	Pump	MAC	0.0				
240 minute summer	MAC	2	OP	0.3	0.731	0.005	0.0180	
240 minute summer	OP	3	Demarcation	0.2	0.568	0.004	0.0006	
240 minute summer	Demarcation	4	Sewer	0.2	0.514	0.005	0.0028	1.9

Results for 1 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	PPS	240	46.194	0.094	0.5	2.8072	0.0000	OK
240 minute winter	MAC	108	47.757	0.007	0.2	0.0028	0.0000	OK
240 minute winter	OP	180	47.194	0.054	0.4	1.1928	0.0000	OK
240 minute winter	Demarcation	180	47.008	0.008	0.2	0.0021	0.0000	OK
240 minute winter	Sewer	180	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	PPS	Pump	MAC	0.0				
240 minute winter	MAC	2	OP	0.2	0.859	0.004	0.0174	
240 minute winter	OP	3	Demarcation	0.2	0.566	0.004	0.0006	
240 minute winter	Demarcation	4	Sewer	0.2	0.512	0.005	0.0027	1.9

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	PPS	424	46.219	0.119	0.5	3.5514	0.0000	SURCHARGED
480 minute summer	MAC	240	47.757	0.007	0.2	0.0028	0.0000	OK
480 minute summer	OP	312	47.194	0.054	0.4	1.2105	0.0000	OK
480 minute summer	Demarcation	312	47.008	0.008	0.2	0.0021	0.0000	OK
480 minute summer	Sewer	312	46.698	0.008	0.2	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	PPS	Pump	MAC	0.0				
480 minute summer	MAC	2	OP	0.2	0.665	0.004	0.0178	
480 minute summer	OP	3	Demarcation	0.2	0.567	0.004	0.0006	
480 minute summer	Demarcation	4	Sewer	0.2	0.513	0.005	0.0027	2.2

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	PPS	570	46.214	0.114	0.3	3.4195	0.0000	SURCHARGED
720 minute summer	MAC	285	47.755	0.005	0.1	0.0022	0.0000	OK
720 minute summer	OP	450	47.189	0.049	0.3	1.0904	0.0000	OK
720 minute summer	Demarcation	450	47.008	0.008	0.2	0.0020	0.0000	OK
720 minute summer	Sewer	450	46.698	0.008	0.2	0.0000	0.0000	OK

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720 minute summer	OP	3	Demarcation	0.2	0.557	0.003	0.0006	
720 minute summer	Demarcation	4	Sewer	0.2	0.503	0.005	0.0026	2.3

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Results for 1 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	PPS	705	46.220	0.120	0.3	3.5996	0.0000	SURCHARGED
960 minute summer	MAC	420	47.755	0.005	0.1	0.0021	0.0000	OK
960 minute summer	OP	570	47.185	0.045	0.2	1.0046	0.0000	OK
960 minute summer	Demarcation	585	47.007	0.007	0.2	0.0020	0.0000	OK
960 minute summer	Sewer	585	46.697	0.007	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	PPS	Pump	MAC	0.0				
960 minute summer	MAC	2	OP	0.1	0.416	0.002	0.0138	
960 minute summer	OP	3	Demarcation	0.2	0.549	0.003	0.0006	
960 minute summer	Demarcation	4	Sewer	0.2	0.496	0.004	0.0025	2.3

Results for 1 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	PPS	705	46.220	0.120	0.3	3.5996	0.0000	SURCHARGED
960 minute summer	MAC	420	47.755	0.005	0.1	0.0021	0.0000	OK
960 minute summer	OP	570	47.185	0.045	0.2	1.0046	0.0000	OK
960 minute summer	Demarcation	585	47.007	0.007	0.2	0.0020	0.0000	OK
960 minute summer	Sewer	585	46.697	0.007	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	PPS	Pump	MAC	0.0				
960 minute summer	MAC	2	OP	0.1	0.416	0.002	0.0138	
960 minute summer	OP	3	Demarcation	0.2	0.549	0.003	0.0006	
960 minute summer	Demarcation	4	Sewer	0.2	0.496	0.004	0.0025	2.3

Results for 1 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	PPS	705	46.220	0.120	0.3	3.5996	0.0000	SURCHARGED
960 minute summer	MAC	420	47.755	0.005	0.1	0.0021	0.0000	OK
960 minute summer	OP	570	47.185	0.045	0.2	1.0046	0.0000	OK
960 minute summer	Demarcation	585	47.007	0.007	0.2	0.0020	0.0000	OK
960 minute summer	Sewer	585	46.697	0.007	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	PPS	Pump	MAC	0.0				
960 minute summer	MAC	2	OP	0.1	0.416	0.002	0.0138	
960 minute summer	OP	3	Demarcation	0.2	0.549	0.003	0.0006	
960 minute summer	Demarcation	4	Sewer	0.2	0.496	0.004	0.0025	2.3

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Results for 1 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	PPS	750	46.226	0.126	0.2	3.7797	0.0000	SURCHARGED
960 minute winter	MAC	390	47.755	0.005	0.1	0.0021	0.0000	OK
960 minute winter	OP	600	47.191	0.051	0.2	1.1349	0.0000	OK
960 minute winter	Demarcation	600	47.008	0.008	0.2	0.0021	0.0000	OK
960 minute winter	Sewer	600	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	PPS	Pump	MAC	0.0				
960 minute winter	MAC	2	OP	0.1	0.416	0.002	0.0163	
960 minute winter	OP	3	Demarcation	0.2	0.561	0.004	0.0006	
960 minute winter	Demarcation	4	Sewer	0.2	0.507	0.005	0.0027	3.0

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	Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
	15 minute winter	PPS	21	46.140	0.040	2.6	1.1818	0.0000	OK
	15 minute winter	MAC	10	47.764	0.014	1.0	0.0059	0.0000	OK
	15 minute winter	OP	18	47.181	0.041	2.2	0.9212	0.0000	OK
	15 minute winter	Demarcation	19	47.007	0.007	0.1	0.0019	0.0000	OK
	15 minute winter	Sewer	19	46.697	0.007	0.1	0.0000	0.0000	OK
	Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
	15 minute winter	PPS	Pump	MAC	0.0				
	15 minute winter	MAC	2	OP	1.0	1.272	0.018	0.0124	
	15 minute winter	OP	3	Demarcation	0.1	0.542	0.003	0.0005	
	15 minute winter	Demarcation	4	Sewer	0.1	0.488	0.004	0.0024	0.9
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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	PPS	36	46.152	0.052	2.4	1.5423	0.0000	OK
30 minute summer	MAC	18	47.764	0.014	1.0	0.0059	0.0000	OK
30 minute summer	OP	33	47.191	0.051	2.1	1.1279	0.0000	OK
30 minute summer	Demarcation	33	47.008	0.008	0.2	0.0021	0.0000	OK
30 minute summer	Sewer	33	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	PPS	Pump	MAC	0.0				
30 minute summer	MAC	2	OP	1.0	0.999	0.018	0.0162	
30 minute summer	OP	3	Demarcation	0.2	0.560	0.004	0.0006	
30 minute summer	Demarcation	4	Sewer	0.2	0.507	0.005	0.0027	1.2

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	PPS	65	46.166	0.066	1.9	1.9782	0.0000	OK
60 minute summer	MAC	33	47.762	0.012	0.7	0.0050	0.0000	OK
60 minute summer	OP	61	47.198	0.058	1.6	1.2978	0.0000	OK
60 minute summer	Demarcation	62	47.008	0.008	0.2	0.0021	0.0000	OK
60 minute summer	Sewer	62	46.698	0.008	0.2	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	PPS	Pump	MAC	0.0				
60 minute summer	MAC	2	OP	0.7	0.999	0.012	0.0195	
60 minute summer	OP	3	Demarcation	0.2	0.574	0.004	0.0006	
60 minute summer	Demarcation	4	Sewer	0.2	0.520	0.005	0.0028	1.5

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120 minute summer	Sewer	84	46.698	0.008	0.2	0.0000	0.0000	OK																																																																																														
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120 minute summer	PPS	Pump	MAC	0.0																																																																																																		
120 minute summer	MAC	2	OP	0.6	1.006	0.011	0.0265																																																																																															
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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	PPS	124	46.193	0.093	1.0	2.7830	0.0000	OK
120 minute winter	MAC	62	47.759	0.009	0.4	0.0039	0.0000	OK
120 minute winter	OP	90	47.213	0.073	0.8	1.6242	0.0000	OK
120 minute winter	Demarcation	90	47.008	0.008	0.2	0.0023	0.0000	OK
120 minute winter	Sewer	90	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	PPS	Pump	MAC	0.0				
120 minute winter	MAC	2	OP	0.4	0.928	0.007	0.0260	
120 minute winter	OP	3	Demarcation	0.2	0.596	0.004	0.0007	
120 minute winter	Demarcation	4	Sewer	0.2	0.540	0.006	0.0031	2.3

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Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00% <table><thead><tr><th>Node Event</th><th>US Node</th><th>Peak (mins)</th><th>Level (m)</th><th>Depth (m)</th><th>Inflow (l/s)</th><th>Node Vol (m³)</th><th>Flood (m³)</th><th>Status</th></tr></thead><tbody><tr><td>180 minute summer</td><td>PPS</td><td>188</td><td>46.208</td><td>0.108</td><td>1.1</td><td>3.2152</td><td>0.0000</td><td>SURCHARGED</td></tr><tr><td>180 minute summer</td><td>MAC</td><td>92</td><td>47.759</td><td>0.009</td><td>0.4</td><td>0.0039</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>OP</td><td>120</td><td>47.217</td><td>0.077</td><td>0.9</td><td>1.7201</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>120</td><td>47.009</td><td>0.009</td><td>0.2</td><td>0.0023</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>Sewer</td><td>120</td><td>46.699</td><td>0.009</td><td>0.2</td><td>0.0000</td><td>0.0000</td><td>OK</td></tr></tbody></table> <table><thead><tr><th>Link Event</th><th>US Node</th><th>Link</th><th>DS Node</th><th>Outflow (l/s)</th><th>Velocity (m/s)</th><th>Flow/Cap</th><th>Link Vol (m³)</th><th>Discharge Vol (m³)</th></tr></thead><tbody><tr><td>180 minute summer</td><td>PPS</td><td>Pump</td><td>MAC</td><td>0.0</td><td></td><td></td><td></td><td></td></tr><tr><td>180 minute summer</td><td>MAC</td><td>2</td><td>OP</td><td>0.4</td><td>0.549</td><td>0.007</td><td>0.0279</td><td></td></tr><tr><td>180 minute summer</td><td>OP</td><td>3</td><td>Demarcation</td><td>0.2</td><td>0.602</td><td>0.005</td><td>0.0007</td><td></td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>4</td><td>Sewer</td><td>0.2</td><td>0.546</td><td>0.006</td><td>0.0032</td><td>2.7</td></tr></tbody></table>				Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	180 minute summer	PPS	188	46.208	0.108	1.1	3.2152	0.0000	SURCHARGED	180 minute summer	MAC	92	47.759	0.009	0.4	0.0039	0.0000	OK	180 minute summer	OP	120	47.217	0.077	0.9	1.7201	0.0000	OK	180 minute summer	Demarcation	120	47.009	0.009	0.2	0.0023	0.0000	OK	180 minute summer	Sewer	120	46.699	0.009	0.2	0.0000	0.0000	OK	Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)	180 minute summer	PPS	Pump	MAC	0.0					180 minute summer	MAC	2	OP	0.4	0.549	0.007	0.0279		180 minute summer	OP	3	Demarcation	0.2	0.602	0.005	0.0007		180 minute summer	Demarcation	4	Sewer	0.2	0.546	0.006	0.0032	2.7
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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	PPS	248	46.222	0.122	1.0	3.6472	0.0000	SURCHARGED
240 minute summer	MAC	124	47.759	0.009	0.4	0.0039	0.0000	OK
240 minute summer	OP	156	47.220	0.080	0.8	1.7726	0.0000	OK
240 minute summer	Demarcation	156	47.009	0.009	0.2	0.0023	0.0000	OK
240 minute summer	Sewer	156	46.699	0.009	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	PPS	Pump	MAC	0.0				
240 minute summer	MAC	2	OP	0.4	0.631	0.007	0.0290	
240 minute summer	OP	3	Demarcation	0.2	0.605	0.005	0.0007	
240 minute summer	Demarcation	4	Sewer	0.2	0.549	0.006	0.0032	2.8

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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	PPS	780	46.257	0.157	0.2	4.6797	0.0000	SURCHARGED
960 minute winter	MAC	360	47.755	0.005	0.1	0.0021	0.0000	OK
960 minute winter	OP	630	47.195	0.055	0.2	1.2286	0.0000	OK
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960 minute winter	Demarcation	4	Sewer	0.2	0.514	0.005	0.0028	3.7

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960 minute winter	OP	630	47.195	0.055	0.2	1.2286	0.0000	OK
960 minute winter	Demarcation	630	47.008	0.008	0.2	0.0021	0.0000	OK
960 minute winter	Sewer	630	46.698	0.008	0.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	PPS	Pump	MAC	0.0				
960 minute winter	MAC	2	OP	0.1	0.416	0.002	0.0181	
960 minute winter	OP	3	Demarcation	0.2	0.568	0.004	0.0006	
960 minute winter	Demarcation	4	Sewer	0.2	0.514	0.005	0.0028	3.7

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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	PPS	21	46.202	0.102	6.6	3.0603	0.0000	SURCHARGED
15 minute winter	MAC	10	47.772	0.022	2.6	0.0093	0.0000	OK
15 minute winter	OP	19	47.249	0.109	5.7	2.4349	0.0000	OK
15 minute winter	Demarcation	19	47.009	0.009	0.3	0.0026	0.0000	OK
15 minute winter	Sewer	19	46.699	0.009	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	PPS	Pump	MAC	0.0				
15 minute winter	MAC	2	OP	2.6	1.393	0.045	0.0421	
15 minute winter	OP	3	Demarcation	0.3	0.638	0.006	0.0008	
15 minute winter	Demarcation	4	Sewer	0.3	0.579	0.007	0.0036	2.3

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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	PPS	36	46.236	0.136	5.2	4.0725	0.0000	SURCHARGED
30 minute winter	MAC	18	47.770	0.020	2.1	0.0084	0.0000	OK
30 minute winter	OP	33	47.281	0.141	4.5	3.1318	0.0000	OK
30 minute winter	Demarcation	33	47.010	0.010	0.3	0.0027	0.0000	OK
30 minute winter	Sewer	33	46.700	0.010	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	PPS	Pump	MAC	0.0				
30 minute winter	MAC	2	OP	2.1	1.215	0.037	0.0523	
30 minute winter	OP	3	Demarcation	0.3	0.667	0.006	0.0009	
30 minute winter	Demarcation	4	Sewer	0.3	0.604	0.009	0.0040	3.1

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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	PPS	65	46.273	0.173	3.5	5.1689	0.0000	SURCHARGED
60 minute winter	MAC	32	47.766	0.016	1.4	0.0069	0.0000	OK
60 minute winter	OP	60	47.308	0.168	3.0	3.7467	0.0000	SURCHARGED
60 minute winter	Demarcation	61	47.011	0.011	0.3	0.0028	0.0000	OK
60 minute winter	Sewer	61	46.700	0.010	0.3	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PPS	Pump	MAC	0.0				
60 minute winter	MAC	2	OP	1.4	1.181	0.025	0.0545	
60 minute winter	OP	3	Demarcation	0.3	0.689	0.007	0.0010	
60 minute winter	Demarcation	4	Sewer	0.3	0.622	0.009	0.0043	3.9

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	PPS	108	46.300	0.200	3.2	5.9787	0.0000	SURCHARGED
120 minute summer	MAC	64	47.766	0.016	1.3	0.0067	0.0000	OK
120 minute summer	OP	124	47.324	0.184	2.8	4.0896	0.0000	SURCHARGED
120 minute summer	Demarcation	124	47.011	0.011	0.3	0.0029	0.0000	OK
120 minute summer	Sewer	124	46.701	0.011	0.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	PPS	Pump	MAC	0.3				
120 minute summer	MAC	2	OP	1.3	1.006	0.023	0.0547	
120 minute summer	OP	3	Demarcation	0.3	0.698	0.007	0.0010	
120 minute summer	Demarcation	4	Sewer	0.3	0.631	0.010	0.0044	6.3

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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	PPS	328	46.316	0.216	0.8	6.4452	0.0000	SURCHARGED
480 minute winter	MAC	288	47.760	0.010	0.5	0.0043	0.0000	OK
480 minute winter	OP	456	47.374	0.234	0.8	5.2105	0.0000	SURCHARGED
480 minute winter	Demarcation	456	47.011	0.011	0.4	0.0031	0.0000	OK
480 minute winter	Sewer	456	46.701	0.011	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	PPS	Pump	MAC	0.3				
480 minute winter	MAC	2	OP	0.5	0.665	0.009	0.0543	
480 minute winter	OP	3	Demarcation	0.4	0.721	0.008	0.0011	
480 minute winter	Demarcation	4	Sewer	0.4	0.656	0.011	0.0048	12.0

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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	PPS	390	46.322	0.222	0.9	6.6375	0.0000	SURCHARGED
600 minute summer	MAC	345	47.760	0.010	0.5	0.0043	0.0000	OK
600 minute summer	OP	510	47.362	0.222	0.8	4.9476	0.0000	SURCHARGED
600 minute summer	Demarcation	510	47.011	0.011	0.4	0.0030	0.0000	OK
600 minute summer	Sewer	510	46.701	0.011	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	PPS	Pump	MAC	0.3				
600 minute summer	MAC	2	OP	0.5	0.223	0.009	0.0543	
600 minute summer	OP	3	Demarcation	0.4	0.716	0.008	0.0011	
600 minute summer	Demarcation	4	Sewer	0.4	0.650	0.011	0.0047	12.7

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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	PPS	450	46.323	0.223	0.8	6.6766	0.0000	SURCHARGED
720 minute summer	MAC	405	47.760	0.010	0.5	0.0043	0.0000	OK
720 minute summer	OP	570	47.359	0.219	0.8	4.8740	0.0000	SURCHARGED
720 minute summer	Demarcation	570	47.011	0.011	0.4	0.0030	0.0000	OK
720 minute summer	Sewer	570	46.701	0.011	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	PPS	Pump	MAC	0.3				
720 minute summer	MAC	2	OP	0.5	0.223	0.009	0.0543	
720 minute summer	OP	3	Demarcation	0.4	0.714	0.008	0.0011	
720 minute summer	Demarcation	4	Sewer	0.4	0.649	0.011	0.0047	13.8



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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	PPS	465	46.316	0.216	0.6	6.4674	0.0000	SURCHARGED
720 minute winter	MAC	405	47.760	0.010	0.5	0.0043	0.0000	OK
720 minute winter	OP	570	47.357	0.217	0.7	4.8390	0.0000	SURCHARGED
720 minute winter	Demarcation	570	47.011	0.011	0.4	0.0030	0.0000	OK
720 minute winter	Sewer	570	46.701	0.011	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	PPS	Pump	MAC	0.3				
720 minute winter	MAC	2	OP	0.5	0.416	0.009	0.0543	
720 minute winter	OP	3	Demarcation	0.4	0.714	0.008	0.0011	
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Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	PPS	256	46.362	0.262	1.8	7.8437	0.0000	SURCHARGED
360 minute summer	MAC	192	47.763	0.013	0.9	0.0054	0.0000	OK
360 minute summer	OP	360	47.418	0.278	1.6	6.1799	0.0000	SURCHARGED
360 minute summer	Demarcation	360	47.012	0.012	0.4	0.0032	0.0000	OK
360 minute summer	Sewer	360	46.702	0.012	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	PPS	Pump	MAC	0.3				
360 minute summer	MAC	2	OP	0.8	0.688	0.015	0.0550	
360 minute summer	OP	3	Demarcation	0.4	0.739	0.009	0.0012	
360 minute summer	Demarcation	4	Sewer	0.4	0.674	0.012	0.0051	11.4

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Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	PPS	344	46.364	0.264	1.0	7.8998	0.0000	SURCHARGED
480 minute winter	MAC	256	47.762	0.012	0.7	0.0050	0.0000	OK
480 minute winter	OP	464	47.429	0.289	1.1	6.4364	0.0000	SURCHARGED
480 minute winter	Demarcation	464	47.012	0.012	0.4	0.0032	0.0000	OK
480 minute winter	Sewer	464	46.702	0.012	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	PPS	Pump	MAC	0.3				
480 minute winter	MAC	2	OP	0.7	0.665	0.012	0.0547	
480 minute winter	OP	3	Demarcation	0.4	0.744	0.009	0.0012	
480 minute winter	Demarcation	4	Sewer	0.4	0.678	0.013	0.0052	13.5

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Results for 100 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	PPS	465	46.375	0.275	1.1	8.2087	0.0000	SURCHARGED
720 minute summer	MAC	375	47.762	0.012	0.7	0.0050	0.0000	OK
720 minute summer	OP	600	47.426	0.286	1.2	6.3653	0.0000	SURCHARGED
720 minute summer	Demarcation	600	47.012	0.012	0.4	0.0032	0.0000	OK
720 minute summer	Sewer	600	46.702	0.012	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	PPS	Pump	MAC	0.3				
720 minute summer	MAC	2	OP	0.7	0.223	0.012	0.0547	
720 minute summer	OP	3	Demarcation	0.4	0.743	0.009	0.0012	
720 minute summer	Demarcation	4	Sewer	0.4	0.677	0.012	0.0052	16.4

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Results for 100 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	PPS	615	46.384	0.284	0.9	8.4986	0.0000	SURCHARGED
960 minute summer	MAC	480	47.761	0.011	0.6	0.0047	0.0000	OK
960 minute summer	OP	720	47.423	0.283	1.0	6.3007	0.0000	SURCHARGED
960 minute summer	Demarcation	720	47.012	0.012	0.4	0.0032	0.0000	OK
960 minute summer	Sewer	720	46.702	0.012	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	PPS	Pump	MAC	0.3				
960 minute summer	MAC	2	OP	0.6	0.187	0.011	0.0545	
960 minute summer	OP	3	Demarcation	0.4	0.742	0.009	0.0012	
960 minute summer	Demarcation	4	Sewer	0.4	0.676	0.012	0.0052	19.0

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Results for 100 year +45% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	PPS	33	46.343	0.243	9.6	7.2770	0.0000	SURCHARGED
30 minute winter	MAC	18	47.776	0.026	3.8	0.0112	0.0000	OK
30 minute winter	OP	34	47.413	0.273	8.3	6.0788	0.0000	SURCHARGED
30 minute winter	Demarcation	35	47.012	0.012	0.4	0.0032	0.0000	OK
30 minute winter	Sewer	35	46.702	0.012	0.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	PPS	Pump	MAC	0.3				
30 minute winter	MAC	2	OP	3.8	1.348	0.067	0.0588	
30 minute winter	OP	3	Demarcation	0.4	0.738	0.009	0.0012	
30 minute winter	Demarcation	4	Sewer	0.4	0.672	0.012	0.0051	6.1



Results for 100 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	PPS	63	46.403	0.303	9.1	9.0605	0.0000	SURCHARGED
60 minute summer	MAC	33	47.776	0.026	3.6	0.0109	0.0000	OK
60 minute summer	OP	64	47.482	0.342	7.8	7.6200	0.0000	SURCHARGED
60 minute summer	Demarcation	64	47.013	0.013	0.5	0.0034	0.0000	OK
60 minute summer	Sewer	65	46.702	0.012	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	PPS	Pump	MAC	0.3				
60 minute summer	MAC	2	OP	3.6	1.270	0.063	0.0588	
60 minute summer	OP	3	Demarcation	0.5	0.763	0.010	0.0013	
60 minute summer	Demarcation	4	Sewer	0.5	0.697	0.014	0.0055	7.4

Results for 100 year +45% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.77%

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Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	PPS	Pump	MAC	0.3				
60 minute summer	MAC	2	OP	3.6	1.270	0.063	0.0588	
60 minute summer	OP	3	Demarcation	0.5	0.763	0.010	0.0013	
60 minute summer	Demarcation	4	Sewer	0.5	0.697	0.014	0.0055	7.4

Results for 100 year +45% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	PPS	62	46.404	0.304	6.5	9.0940	0.0000	SURCHARGED
60 minute winter	MAC	36	47.772	0.022	2.6	0.0093	0.0000	OK
60 minute winter	OP	63	47.484	0.344	5.7	7.6614	0.0000	SURCHARGED
60 minute winter	Demarcation	63	47.013	0.013	0.5	0.0034	0.0000	OK
60 minute winter	Sewer	63	46.702	0.012	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	PPS	Pump	MAC	0.3				
60 minute winter	MAC	2	OP	2.6	1.272	0.046	0.0576	
60 minute winter	OP	3	Demarcation	0.5	0.764	0.010	0.0013	
60 minute winter	Demarcation	4	Sewer	0.5	0.698	0.014	0.0055	7.4

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	PPS	120	46.448	0.348	4.0	10.4087	0.0000	SURCHARGED
120 minute winter	MAC	66	47.768	0.018	1.8	0.0078	0.0000	OK
120 minute winter	OP	120	47.522	0.382	3.6	8.4973	0.0000	SURCHARGED
120 minute winter	Demarcation	120	47.013	0.013	0.5	0.0035	0.0000	OK
120 minute winter	Sewer	120	46.703	0.013	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	PPS	Pump	MAC	0.3				
120 minute winter	MAC	2	OP	1.8	1.053	0.032	0.0565	
120 minute winter	OP	3	Demarcation	0.5	0.776	0.011	0.0013	
120 minute winter	Demarcation	4	Sewer	0.5	0.709	0.014	0.0057	8.9

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Results for 100 year +45% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.79% <table><tr><th>Node Event</th><th>US Node</th><th>Peak (mins)</th><th>Level (m)</th><th>Depth (m)</th><th>Inflow (l/s)</th><th>Node Vol (m³)</th><th>Flood (m³)</th><th>Status</th></tr><tr><td>180 minute summer</td><td>PPS</td><td>184</td><td>46.466</td><td>0.366</td><td>4.2</td><td>10.9326</td><td>0.0000</td><td>SURCHARGED</td></tr><tr><td>180 minute summer</td><td>MAC</td><td>96</td><td>47.769</td><td>0.019</td><td>2.0</td><td>0.0082</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>OP</td><td>184</td><td>47.661</td><td>0.521</td><td>4.0</td><td>9.0260</td><td>0.0000</td><td>SURCHARGED</td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>184</td><td>47.014</td><td>0.014</td><td>0.6</td><td>0.0037</td><td>0.0000</td><td>OK</td></tr><tr><td>180 minute summer</td><td>Sewer</td><td>184</td><td>46.704</td><td>0.014</td><td>0.6</td><td>0.0000</td><td>0.0000</td><td>OK</td></tr></table> <table><tr><th>Link Event</th><th>US Node</th><th>Link</th><th>DS Node</th><th>Outflow (l/s)</th><th>Velocity (m/s)</th><th>Flow/Cap</th><th>Link Vol (m³)</th><th>Discharge Vol (m³)</th></tr><tr><td>180 minute summer</td><td>PPS</td><td>Pump</td><td>MAC</td><td>0.3</td><td></td><td></td><td></td><td></td></tr><tr><td>180 minute summer</td><td>MAC</td><td>2</td><td>OP</td><td>2.0</td><td>1.079</td><td>0.035</td><td>0.0568</td><td></td></tr><tr><td>180 minute summer</td><td>OP</td><td>3</td><td>Demarcation</td><td>0.6</td><td>0.815</td><td>0.013</td><td>0.0015</td><td></td></tr><tr><td>180 minute summer</td><td>Demarcation</td><td>4</td><td>Sewer</td><td>0.6</td><td>0.744</td><td>0.017</td><td>0.0064</td><td>10.4</td></tr></table>				Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	180 minute summer	PPS	184	46.466	0.366	4.2	10.9326	0.0000	SURCHARGED	180 minute summer	MAC	96	47.769	0.019	2.0	0.0082	0.0000	OK	180 minute summer	OP	184	47.661	0.521	4.0	9.0260	0.0000	SURCHARGED	180 minute summer	Demarcation	184	47.014	0.014	0.6	0.0037	0.0000	OK	180 minute summer	Sewer	184	46.704	0.014	0.6	0.0000	0.0000	OK	Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)	180 minute summer	PPS	Pump	MAC	0.3					180 minute summer	MAC	2	OP	2.0	1.079	0.035	0.0568		180 minute summer	OP	3	Demarcation	0.6	0.815	0.013	0.0015		180 minute summer	Demarcation	4	Sewer	0.6	0.744	0.017	0.0064	10.4
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Results for 100 year +45% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	PPS	224	46.478	0.378	3.5	11.2944	0.0000	SURCHARGED
240 minute summer	MAC	124	47.768	0.018	1.7	0.0076	0.0000	OK
240 minute summer	OP	232	47.613	0.473	3.4	8.9830	0.0000	SURCHARGED
240 minute summer	Demarcation	232	47.014	0.014	0.6	0.0037	0.0000	OK
240 minute summer	Sewer	232	46.703	0.013	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	PPS	Pump	MAC	0.3				
240 minute summer	MAC	2	OP	1.7	0.929	0.030	0.0563	
240 minute summer	OP	3	Demarcation	0.6	0.802	0.012	0.0014	
240 minute summer	Demarcation	4	Sewer	0.6	0.733	0.016	0.0062	11.5

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Results for 100 year +45% CC 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	PPS	288	46.490	0.390	2.7	11.6557	0.0000	SURCHARGED
360 minute summer	MAC	184	47.766	0.016	1.4	0.0069	0.0000	OK
360 minute summer	OP	288	47.659	0.519	2.7	9.0244	0.0000	SURCHARGED
360 minute summer	Demarcation	288	47.014	0.014	0.6	0.0037	0.0000	OK
360 minute summer	Sewer	288	46.704	0.014	0.6	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	PPS	Pump	MAC	0.3				
360 minute summer	MAC	2	OP	1.4	0.688	0.024	0.0559	
360 minute summer	OP	3	Demarcation	0.6	0.814	0.013	0.0015	
360 minute summer	Demarcation	4	Sewer	0.6	0.743	0.017	0.0064	14.0

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Results for 100 year +45% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.82%								
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	PPS	288	46.483	0.383	1.7	11.4597	0.0000	SURCHARGED
360 minute winter	MAC	184	47.764	0.014	1.0	0.0059	0.0000	OK
360 minute winter	OP	288	47.674	0.534	1.8	9.0379	0.0000	SURCHARGED
360 minute winter	Demarcation	288	47.014	0.014	0.6	0.0038	0.0000	OK
360 minute winter	Sewer	288	46.704	0.014	0.6	0.0000	0.0000	OK
Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	PPS	Pump	MAC	0.3				
360 minute winter	MAC	2	OP	1.0	0.903	0.018	0.0553	
360 minute winter	OP	3	Demarcation	0.6	0.818	0.013	0.0015	
360 minute winter	Demarcation	4	Sewer	0.6	0.747	0.017	0.0065	13.9

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480 minute winter	OP	360	47.697	0.557	1.6	9.0578	0.0000	SURCHARGED																																																																																														
480 minute winter	Demarcation	360	47.014	0.014	0.6	0.0038	0.0000	OK																																																																																														
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480 minute winter	PPS	Pump	MAC	0.3																																																																																																		
480 minute winter	MAC	2	OP	0.9	0.665	0.016	0.0551																																																																																															
480 minute winter	OP	3	Demarcation	0.6	0.823	0.013	0.0015																																																																																															
480 minute winter	Demarcation	4	Sewer	0.6	0.751	0.018	0.0066	16.4																																																																																														
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Results for 100 year +45% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	PPS	510	46.830	0.730	1.5	12.4301	0.0000	SURCHARGED
720 minute summer	MAC	375	47.763	0.013	0.9	0.0056	0.0000	OK
720 minute summer	OP	495	47.572	0.432	1.6	8.9467	0.0000	SURCHARGED
720 minute summer	Demarcation	495	47.013	0.013	0.5	0.0036	0.0000	OK
720 minute summer	Sewer	495	46.703	0.013	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	PPS	Pump	MAC	0.3				
720 minute summer	MAC	2	OP	0.9	0.421	0.016	0.0551	
720 minute summer	OP	3	Demarcation	0.5	0.791	0.011	0.0014	
720 minute summer	Demarcation	4	Sewer	0.5	0.724	0.015	0.0060	21.0

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Results for 100 year +45% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	PPS	675	46.473	0.373	0.8	11.1633	0.0000	SURCHARGED
960 minute winter	MAC	420	47.761	0.011	0.6	0.0047	0.0000	OK
960 minute winter	OP	660	47.589	0.449	1.0	8.9619	0.0000	SURCHARGED
960 minute winter	Demarcation	660	47.013	0.013	0.6	0.0036	0.0000	OK
960 minute winter	Sewer	660	46.703	0.013	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	PPS	Pump	MAC	0.3				
960 minute winter	MAC	2	OP	0.6	0.416	0.011	0.0545	
960 minute winter	OP	3	Demarcation	0.6	0.795	0.012	0.0014	
960 minute winter	Demarcation	4	Sewer	0.6	0.728	0.016	0.0061	25.5



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Results for 100 year +45% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	PPS	900	46.490	0.390	0.9	11.6482	0.0000	SURCHARGED
1440 minute summer	MAC	750	47.762	0.012	0.7	0.0050	0.0000	OK
1440 minute summer	OP	900	47.694	0.554	1.1	9.0550	0.0000	SURCHARGED
1440 minute summer	Demarcation	900	47.014	0.014	0.6	0.0038	0.0000	OK
1440 minute summer	Sewer	900	46.704	0.014	0.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	PPS	Pump	MAC	0.3				
1440 minute summer	MAC	2	OP	0.7	0.157	0.012	0.0547	
1440 minute summer	OP	3	Demarcation	0.6	0.823	0.013	0.0015	
1440 minute summer	Demarcation	4	Sewer	0.6	0.750	0.017	0.0066	31.4

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Results for 100 year +45% CC 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	PPS	990	46.463	0.363	0.6	10.8589	0.0000	SURCHARGED
1440 minute winter	MAC	630	47.760	0.010	0.5	0.0043	0.0000	OK
1440 minute winter	OP	960	47.527	0.387	0.8	8.6254	0.0000	SURCHARGED
1440 minute winter	Demarcation	960	47.013	0.013	0.5	0.0035	0.0000	OK
1440 minute winter	Sewer	960	46.703	0.013	0.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	PPS	Pump	MAC	0.3				
1440 minute winter	MAC	2	OP	0.5	0.111	0.009	0.0543	
1440 minute winter	OP	3	Demarcation	0.5	0.777	0.011	0.0013	
1440 minute winter	Demarcation	4	Sewer	0.5	0.711	0.015	0.0058	32.2

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6 APPENDIX E - Mid-Sussex Checklist

Requirement	Summary of Expectation	Reference (Drawing / Report Section)
Greenfield runoff rate (Qbar)	FEH method or similar approved; based on pre-development catchment	25300-QED-ZZ-00-RP-C-1000-P01 - DRAINAGE STRATEGY
On-site infiltration testing	BRE365-compliant tests at SuDS location/depth; safety factor applied	NA. No Space >5m
Groundwater monitoring (if relevant)	Demonstrates seasonal high water table is >1m below base	Tanks protected from Groundwater
Catchment and drainage areas	Plans show areas drained and contributing catchments for each SuDS feature	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design
Climate change allowances	EA guidance applied to rainfall intensity	FEH and 45% used
Urban creep allowance	10% additional impermeable area unless justified	Full site area drained
Design rainfall	Latest FEH data; FSR not accepted without justification	FEH used
Cv value	1.0 applied to all impermeable surfaces	1.0 used
Hydraulic calculations	1 in 1, 1 in 30, 1 in 30 + CC, and 1 in 100 + CC critical storm durations; no flooding	No flooding shown in calculations
Flow control structures	Head-discharge curve, outlet sizing, orifice protection from blockage	Refer to Calculations
SuDS layout plan	Full drainage layout with invert levels, cover levels, flow directions, and labels	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design
Longitudinal and cross sections	For basins, pipes, flow controls, below-ground structures	25300-QED-ZZ-00-DR-C-1001-S2-P03_Construction Details
Exceedance flow routing	Plans show how exceedance flows are managed/safely routed	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design. Existing maintained due to site levels
Finished floor levels	FFLs at least 150mm above surrounding ground/exceedance routes	FFL above surrounding ground by 150mm
Water quality treatment	Simple Index Approach; mitigation index >= hazard index	25300-QED-ZZ-00-RP-C-1000-P01 - DRAINAGE STRATEGY
Proprietary systems (if used)	Certification, design basis, and O&M provided	Appendix A
SuDS details	Type, size, function, inlet/outlet, invert and cover levels, safety features	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design
Maintenance plan	Asset register and inspection/maintenance schedule; CIRIA Table 32.1 referenced	Appendix A
Maintenance party and mechanism	Legal body named; landowner, management company or adoption route clear	Owner of freehold or appointed representative
Soakaway or infiltration design	Sizing for 6-hour 1 in 100+CC storm; half-drain time <24h	25300-QED-ZZ-00-RP-C-1000-P01 - DRAINAGE STRATEGY
Discharge to watercourse	Restricted to Qbar; outfall location and construction details provided	25300-QED-ZZ-00-RP-C-1000-P01 - DRAINAGE STRATEGY
Attenuation sizing	Demonstrates storage for 1 in 100+CC event without flooding	25300-QED-ZZ-00-RP-C-1000-P01 - DRAINAGE STRATEGY
Discharge to sewer	Qbar max unless the sewerage undertaker agrees higher rate	Southern Water to confirm
Sewer connection approval	Undertaker correspondence confirming acceptability of rate and location; S106 not required	Southern Water to confirm

Foul drainage layout	Inverts, pipe sizes, gradients, connection points	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design
System type	Gravity or pumped; pump design and calculations if applicable	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design - Pumped
Peak flow rate	Based on occupancy and discharge volume	A peak rate for 15 people is 1.45 l/s
Public sewer connection	Location confirmed; manhole ID and route to sewer	25300-QED-ZZ-00-DR-C-1000-S4-P04_Drainage Design
Undertaker correspondence	Email or letter showing awareness of proposal and preliminary approval	See emails