

Project:	Date: 28/01/2025		
	Designed by: JackRooney	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S1	Manhole	385443.725	402930.160	57.600	0.600	57.000	Circular	0.600
S2	Manhole	385448.043	402909.584	57.600	0.950	56.650	Circular	0.600
S3	Manhole	385440.245	402907.900	57.600	1.150	56.450	Circular	0.600
S4	Manhole	385436.065	402927.915	57.600	0.600	57.000	Circular	0.600

Name	Lock
S1	None
S2	None
S3	None
S4	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S1	Inlet	S01	(None)	No Restriction
S2	Inlet	S06-2	(None)	No Restriction
	Inlet (1)	1.000	(None)	No Restriction
	Inlet (2)	S05-2	(None)	No Restriction
	Inlet (3)	S05-1	(None)	No Restriction
	Inlet (4)	S06-1	(None)	No Restriction
S3	Inlet	S08	(None)	No Restriction
	Inlet (1)	1.001	(None)	No Restriction
	Inlet (2)	2.000	(None)	No Restriction
	Inlet (3)	S04-2	(None)	No Restriction
	Inlet (4)	S08-2	(None)	No Restriction
S4	Inlet (5)	S04-1	(None)	No Restriction
	Inlet	S03	(None)	No Restriction
	Inlet (1)	S02-1	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S1	Outlet	1.000	Free Discharge
S2	Outlet	1.001	Free Discharge
S3	Outlet	Pipe	Free Discharge
S4	Outlet	2.000	Free Discharge

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Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	57.450
Depth (m)	1.250
Base Level (m)	56.200
Freeboard (mm)	0
Soakaway Shape	Rectangular
Diameter / Width (m)	2.500
Length (m)	10.000
Porosity (%)	95
Ineffective Storage Depth (m)	0.650
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0555
Side Infiltration Rate (m/hr)	0.0555
Safety Factor	2.0
Total Volume (m³)	14.250

Inlets

Inlet (1)

Incoming Item(s)	Pipe
Bypass Destination	(None)
Capacity Type	No Restriction

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Porous Paving

Type : Porous Paving

Dimensions

Exceedance Level (m)	57.450
Depth (m)	0.410
Base Level (m)	57.040
Paving Layer Depth (mm)	110
Membrane Percolation (m/hr)	4.0
Porosity (%)	30
Length (m)	20.480
Long. Slope (1:X)	400.00
Width (m)	6.481
Total Volume (m³)	11.946

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	PP
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	S07
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0491
Safety Factor	3.0
Conductivity (m/hr)	0.1

Project:	Date: 28/01/2025		
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Report Details: Type: Connections Storm Phase: Phase	Company Address:		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
1.000	21.025	Pipe	60.000		0.6	150	57.600	57.000
1.001	7.978	Pipe	39.973		0.6	150	57.600	56.650
2.000	20.448	Pipe	37.177		0.6	150	57.600	57.000
Pipe	4.827	Pipe	19.307		0.6	150	57.600	56.450

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock
1.000	57.600	56.650	None
1.001	57.600	56.450	None
2.000	57.600	56.450	None
Pipe	57.450	56.200	None

Project:	Date: 28/01/2025		
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Report Details: Type: Manhole Schedule Storm Phase: Phase		Company Address:	



Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
S1	57.600 57.000	Diameter / Length: 0.600					Manhole
E:385443.725 N:402930.160	0.600						
			{a} 1.000	Pipe	57.000	Diam/Width:150	Not Applicable
S2	57.600 56.650	Diameter / Length: 0.600	{1} 1.000	Pipe	56.650	Diam/Width:150	Manhole
E:385448.043 N:402909.584	0.950						
			{a} 1.001	Pipe	56.650	Diam/Width:150	Not Applicable
S3	57.600 56.450	Diameter / Length: 0.600	{1} 1.001	Pipe	56.450	Diam/Width:150	Manhole
E:385440.245 N:402907.900	1.150		{2} 2.000	Pipe	56.450	Diam/Width:150	
			{a} Pipe	Pipe	56.450	Diam/Width:150	Not Applicable
S4	57.600 57.000	Diameter / Length: 0.600					Manhole
E:385436.065 N:402927.915	0.600						
			{a} 2.000	Pipe	57.000	Diam/Width:150	Not Applicable

Project:		Date: 28/01/2025			
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Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
PP	Porous Paving		Time of Concentration	0.011	100	0	100	0.011
S01	S1		Time of Concentration	0.003	100	0	100	0.003
S02-1	S4		Time of Concentration	0.003	100	0	100	0.003
S03	S4		Time of Concentration	0.003	100	0	100	0.003
S04-1	S3		Time of Concentration	0.002	100	0	100	0.002
S04-2	S3		Time of Concentration	0.002	100	0	100	0.002
S05-1	S2		Time of Concentration	0.002	100	0	100	0.002
S05-2	S2		Time of Concentration	0.002	100	0	100	0.002
S06-1	S2		Time of Concentration	0.002	100	0	100	0.002
S06-2	S2		Time of Concentration	0.001	100	0	100	0.001
S07	Porous Paving		Time of Concentration	0.004	100	0	100	0.004
S08	S3		Time of Concentration	0.003	100	0	100	0.003
S08-2	S3		Time of Concentration	0.004	100	0	100	0.004
TOTAL		0.0		0.041				0.041

Project:	Date: 28/01/2025		
	Designed by: JackRooney	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase		Company Address:	



Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

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Type: Network Design Criteria Storm Phase: Phase				

Manhole Options

Apply Offset	☐
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Manhole Size Library

Default

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

Project:	Date: 28/01/2025			
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Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	0
Perform No Discharge Analysis	☐

Project:	Date: 28/01/2025		
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Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		





Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
S01	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.5	0.705
S02-1	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.6	0.735
S04-1	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.3	0.615
S05-1	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.1	0.516
S06-1	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.552
S05-2	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.0	0.459
S06-2	FSR: 100 years: +45 %: 15 mins: Winter	0.00	0.8	0.357
S08	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.6	0.732
S03	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.9	0.870
S04-2	FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.0	0.480
S08-2	FSR: 100 years: +45 %: 15 mins: Winter	0.00	2.2	1.029
S07	FSR: 100 years: +45 %: 60 mins: Winter	0.00	0.7	1.695
PP	FSR: 100 years: +45 %: 60 mins: Winter	0.01	2.1	4.788

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Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1	FSR: 100 years: +45 %: 15 mins: Winter	57.60 0	57.00 0	57.026	0.026	1.5	0.007	0.000	1.5	0.704	OK
S2	FSR: 100 years: +45 %: 360 mins: Winter	57.60 0	56.65 0	56.788	0.139	0.8	0.039	0.000	0.9	7.354	OK
S3	FSR: 100 years: +45 %: 360 mins: Winter	57.60 0	56.45 0	56.789	0.339	2.3	0.096	0.000	2.2	19.825	Surcharged
S4	FSR: 100 years: +45 %: 15 mins: Winter	57.60 0	57.00 0	57.035	0.035	3.5	0.010	0.000	3.4	1.603	OK

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Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Porous Paving	FSR: 100 years: +45 %: 120 mins: Winter	57.195	57.144	0.104	0.104	2.4	4.137	0.000	7.930	0.0	0.000	65.372	OK
Soakaway	FSR: 100 years: +45 %: 360 mins: Winter	56.788	56.788	0.588	0.588	2.2	13.978	0.000	11.430	0.0	0.000	1.907	OK

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Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S1	S2	57.600	57.026	0.036	0.704	0.5	0.06	1.5	OK
1.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S2	S3	57.600	56.695	0.058	2.586	0.9	0.19	5.4	OK
2.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S4	S3	57.600	57.035	0.052	1.603	0.6	0.12	3.4	OK
Pipe	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S3	Soakaway	57.600	56.520	0.150	6.998	1.8	0.36	14.6	OK

Project:	Date: 28/01/2025		
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Report Details: Type: Phase Management Storm Phase: Phase	Company Address:		





Phase
 FSR: 1 years: Increase Rainfall (%): +0: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
TOTAL	3.5	1.933	0.0	0.000