

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	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
ATT1	0.007	75.712	1200	531304.842	139386.584	0.900
ATT2	0.007	75.712	1200	531304.350	139394.973	0.900

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	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
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0
30	0	0	0
30	40	0	0
100	0	0	0
100	45	0	0

Node ATT1 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.400	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	1.0		
Invert Level (m)	74.812	Diameter (m)	0.027		

Node ATT2 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.400	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	1.0		
Invert Level (m)	74.812	Diameter (m)	0.027		

Node ATT1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.16200	Invert Level (m)	74.812	Depth (m)	0.400
Side Inf Coefficient (m/hr)	0.16200	Time to half empty (mins)	31	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	3.000	Number Required	1
Porosity	0.95	Pit Length (m)	2.000		

Node ATT2 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.16200	Invert Level (m)	74.812	Depth (m)	0.400
Side Inf Coefficient (m/hr)	0.16200	Time to half empty (mins)	31	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	3.000	Number Required	1
Porosity	0.95	Pit Length (m)	2.000		

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	ATT1	22	74.937	0.125	2.5	0.8527	0.0000	OK
30 minute summer	ATT2	22	74.937	0.125	2.5	0.8527	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
30 minute summer	ATT1	Orifice	0.5	1.0
30 minute summer	ATT1	Infiltration	0.2	
30 minute summer	ATT2	Orifice	0.5	1.0
30 minute summer	ATT2	Infiltration	0.2	

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
60 minute summer	ATT1	40	74.985	0.173	2.4	1.1835	0.0000	OK
60 minute summer	ATT2	40	74.985	0.173	2.4	1.1835	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
60 minute summer	ATT1	Orifice	0.6	1.8
60 minute summer	ATT1	Infiltration	0.2	
60 minute summer	ATT2	Orifice	0.6	1.8
60 minute summer	ATT2	Infiltration	0.2	

Results for 30 year +40% 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
60 minute summer	ATT1	41	75.069	0.257	3.3	1.7546	0.0000	OK
60 minute summer	ATT2	41	75.069	0.257	3.3	1.7546	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
60 minute summer	ATT1	Orifice	0.8	2.5
60 minute summer	ATT1	Infiltration	0.2	
60 minute summer	ATT2	Orifice	0.8	2.5
60 minute summer	ATT2	Infiltration	0.2	

Results for 100 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
60 minute summer	ATT1	41	75.047	0.235	3.1	1.6076	0.0000	OK
60 minute summer	ATT2	41	75.047	0.235	3.1	1.6076	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
60 minute summer	ATT1	Orifice	0.7	2.3
60 minute summer	ATT1	Infiltration	0.2	
60 minute summer	ATT2	Orifice	0.7	2.3
60 minute summer	ATT2	Infiltration	0.2	

Results for 100 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
60 minute summer	ATT1	42	75.175	0.363	4.4	2.4824	0.0000	OK
60 minute summer	ATT2	42	75.175	0.363	4.4	2.4824	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)	Discharge Vol (m³)
60 minute summer	ATT1	Orifice	0.9	3.4
60 minute summer	ATT1	Infiltration	0.2	
60 minute summer	ATT2	Orifice	0.9	3.4
60 minute summer	ATT2	Infiltration	0.2	