Design Settings

Rainfall Methodology	FEH-13	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	0.000
Return Period (years)	2	Maximum Rainfall (mm/hr)	200.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	✓
CV	0.750	Connection Type	Level Soffits		
Time of Entry (mins)	5.00	Minimum Backdrop Height (m)	0.000		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Depth (m)
PP3	0.127	5.00	11.520	0.290
PP4			11.520	0.313

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	0.750	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	0.840	Drain Down Time (mins)	240	Check Discharge Volume	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 %)
2	0	0	0	100	20	0	0
30	0	0	0	100	40	0	0

Node PP4 Online Head/Flow Control

Flap Valve	x	Replaces Downstream Link	✓	Invert Level (m)	11.207

Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
0.001	0.000	1.000	0.000

Node PP3 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.40000	Porosity	0.30	Width (m)	58.450	Depth (m)	0.190
Side Inf Coefficient (m/hr)	0.40000	Invert Level (m)	11.230	Length (m)	22.000	Inf Depth (m)	0.190
Safety Factor	2.0	Time to half empty (mins)		Slope (1:X)	1000.0		

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.06%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP3	11	11.241	0.011	19.0	1.1511	0.0000	OK
30 minute winter	PP4	35	11.214	0.007	0.0	0.0000	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)
15 minute winter	PP3	1.000	PP4	0.0	0.091	0.005	0.0081	
15 minute winter	PP3	Infiltration		16.4				
30 minute winter	PP4	Head/Flow		0.0				0.0

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.06%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP3	12	11.256	0.026	51.3	5.8402	0.0000	OK
30 minute winter	PP4	23	11.254	0.047	0.3	0.0000	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)
15 minute winter	PP3	1.000	PP4	0.4	0.181	0.066	0.0712	
15 minute winter	PP3	Infiltration		37.5				
30 minute winter	PP4	Head/Flow		0.0				0.0

Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 99.06%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP3	12	11.268	0.038	78.7	10.4883	0.0000	OK
15 minute winter	PP4	13	11.273	0.066	0.8	0.0000	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)
15 minute winter	PP3	1.000	PP4	0.8	0.220	0.144	0.1253	
15 minute winter	PP3	Infiltration		54.8				
15 minute winter	PP4	Head/Flow		0.0				0.0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.06%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PP3	12	11.274	0.044	91.8	12.7503	0.0000	OK
15 minute winter	PP4	13	11.282	0.075	0.9	0.0000	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)
15 minute winter	PP3	1.000	PP4	0.9	0.225	0.169	0.1507	
15 minute winter	PP3	Infiltration		63.2				
15 minute winter	PP4	Head/Flow		0.0				0.0