

Project:	Date: 15/11/2023			
	Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Storm	Company Address:			



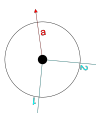
Cellular Storage

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	46.102
Depth (m)	0.800
Base Level (m)	44.469
Number of Crates Long	10
Number of Crates Wide	10
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	1
Crate Height (m)	0.8
Total Volume (m³)	76.833
Inlets	
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	No Delay
Bypass Destination	(None)
Capacity Type	No Restriction
Outlets	
Outlet	
Outgoing Connection	Pipe
Outlet Type	Free Discharge

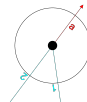
Project:	Date: 15/11/2023			
	Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Storm	Company Address:			

Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS1	46.605 46.005		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382606.035 N:388351.919	0.600									
IP E:382606.035 IP N:388351.919				{a} 1.000	Pipe	46.005	Diam/Width: 150	Not Applicable		
PS2	46.872 45.721		Diameter / Length: 0.600	{1} 1.000	Pipe	45.721	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382583.424 N:388354.034	1.151									
IP E:382583.424 IP N:388354.034				{a} 1.001	Pipe	45.721	Diam/Width: 150	Not Applicable		
PS4	46.761 45.508		Diameter / Length: 0.600	{1} 1.001	Pipe	45.508	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382585.008 N:388370.961	1.253			{2} 2.000	Pipe	45.508	Diam/Width: 150			
IP E:382585.008 IP N:388370.961				{a} 1.002	Pipe	45.508	Diam/Width: 150	Not Applicable		

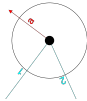
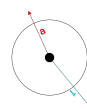
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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS3	46.466 45.866		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382611.2 20 N:388368.5 08	0.600									
IP E:382611.2 20 IP N:388368.5 08				{a} 2.000	Pipe	45.866	Diam/Width: 150	Not Applicable		
PS6	46.826 45.429		Diameter / Length: 0.600	{1} 1.002	Pipe	45.429	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382584.1 22 N:388377.2 15	1.397			{2} 3.000	Pipe	45.429	Diam/Width: 150			
IP E:382584.1 22 IP N:388377.2 15				{a} 1.003	Pipe	45.429	Diam/Width: 150	Not Applicable		
PS5	46.990 46.430		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382569.8 22 N:388358.1 93	0.560									
IP E:382569.8 22 IP N:388358.1 93				{a} 3.000	Pipe	46.430	Diam/Width: 150	Not Applicable		

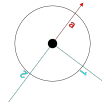
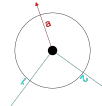
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Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS9	46.655 44.402		Diameter / Length: 1.200	{1} 1.003	Pipe	44.402	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382598.682 N:388396.585	2.253			{2} 4.001	Pipe	44.402	Diam/Width: 225			
IP E:382598.682 IP N:388396.585				{a} 1.004	Pipe	44.402	Diam/Width: 225	Not Applicable		
PS7	46.221 44.552		Diameter / Length: 1.200					Manhole	{a} Orifice	44.552
E:382614.590 N:388378.298	1.669									
IP E:382614.590 IP N:388378.298				{a} No Delay	No Delay	Not Applicable	Not Applicable	Not Applicable		
PS8	46.422 44.468		Diameter / Length: 1.200	{1} Pipe	Pipe	44.468	Diam/Width: 225	Manhole	{a} Orifice	44.468
E:382603.265 N:388386.527	1.954									
IP E:382603.265 IP N:388386.527				{a} 4.001	Pipe	44.468	Diam/Width: 225	Not Applicable		

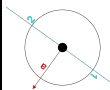
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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS11	46.627 44.318		Diameter / Length: 1.200	{1} 1.004	Pipe	44.318	Diam/Width: 225	Manhole - Access Required	{a} Free Discharge	
E:382587.4 25 N:388405.0 40	2.309			{2} 5.000	Pipe	44.318	Diam/Width: 150			
IP E:382587.4 25 IP N:388405.0 40				{a} 1.005	Pipe	44.318	Diam/Width: 225	Not Applicable		
PS10	47.130 46.530		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382560.3 86 N:388369.0 69	0.600									
IP E:382560.3 86 IP N:388369.0 69				{a} 5.000	Pipe	46.530	Diam/Width: 150	Not Applicable		
PS21	46.354 44.292		Diameter / Length: 1.200	{1} 1.005	Pipe	44.292	Diam/Width: 225	Manhole	{a} Hydro-Brake®	44.292
E:382590.0 07 N:388408.4 75	2.062			{2} 6.002	Pipe	44.292	Diam/Width: 150			
IP E:382590.0 07 IP N:388408.4 75				{a} 1.006	Pipe	44.292	Diam/Width: 225	Not Applicable		

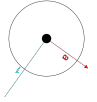
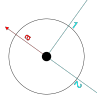
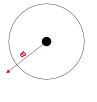
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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS12	46.186 45.586		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382627.906 N:388401.989	0.600									
IP E:382627.906 IP N:388401.989				{a} 6.000	Pipe	45.586	Diam/Width: 150	Not Applicable		
PS13	46.237 45.248		Diameter / Length: 0.600	{1} 6.000	Pipe	45.248	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382606.157 N:388417.728	0.989			{2} 7.001	Pipe	45.248	Diam/Width: 100			
IP E:382606.157 IP N:388417.728				{a} 6.001	Pipe	45.248	Diam/Width: 150	Not Applicable		
PS13A	46.209 45.614		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382591.451 N:388414.990	0.595									
IP E:382591.451 IP N:388414.990				{a} 7.000	Pipe	45.614	Diam/Width: 100	Not Applicable		

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Orientation (Degrees anticlockwise from North)	0

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Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS13B	46.142 45.464		Diameter / Length: 0.600	{1} 7.000	Pipe	45.464	Diam/Width: 100	Manhole - Access Required	{a} Free Discharge	
E:382597.749 N:388423.763	0.678									
IP E:382597.749 IP N:388423.763				{a} 7.001	Pipe	45.464	Diam/Width: 100	Not Applicable		
PS20	46.300 44.339		Diameter / Length: 1.200	{1} 6.001	Pipe	44.339	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382596.275 N:388403.973	1.961			{2} 8.003	Pipe	44.339	Diam/Width: 225			
IP E:382596.275 IP N:388403.973				{a} 6.002	Pipe	44.339	Diam/Width: 150	Not Applicable		
PS14	46.065 45.387		Diameter / Length: 0.600					Manhole - Access Required	{a} Free Discharge	
E:382644.185 N:388378.897	0.678									
IP E:382644.185 IP N:388378.897				{a} 8.000	Pipe	45.387	Diam/Width: 150	Not Applicable		

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Orientation (Degrees anticlockwise from North)	0

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Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS15	46.167 45.200		Diameter / Length: 0.600	{1} 8.000	Pipe	45.200	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382632.377 N:388369.648	0.968									
IP E:382632.377 IP N:388369.648				{a} 8.001	Pipe	45.200	Diam/Width: 150	Not Applicable		
PS16	46.010 45.102		Diameter / Length: 0.600	{1} 8.001	Pipe	45.102	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382621.102 N:388378.122	0.908									
IP E:382621.102 IP N:388378.122				{a} 8.002	Pipe	45.102	Diam/Width: 150	Not Applicable		
PS19	45.958 44.550		Diameter / Length: 1.200	{1} 8.002	Pipe	44.550	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382624.907 N:388383.403	1.408			{2} 9.001	Pipe	44.550	Diam/Width: 150			
IP E:382624.907 IP N:388383.403				{a} 8.003	Pipe	44.550	Diam/Width: 225	Not Applicable		

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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
PS17	45.995 45.395		Diameter / Length: 0.600		Pipe	45.395	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382647.934 N:388391.264	0.600									
IP E:382647.934 IP N:388391.264				{a} 9.000				Not Applicable		
PS18	45.906 44.826		Diameter / Length: 0.600	{1} 9.000	Pipe	44.826	Diam/Width: 150	Manhole - Access Required	{a} Free Discharge	
E:382636.757 N:388399.665	1.080									
IP E:382636.757 IP N:388399.665				{a} 9.001				Not Applicable		
COM1	46.139 44.200		Diameter / Length: 1.200	{1} 1.006	Pipe	44.200	Diam/Width: 225	Manhole - Access Required	{a} Free Discharge	
E:382588.477 N:388412.923	1.939									
IP E:382588.477 IP N:388412.923				{a} 1.007				Not Applicable		

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Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
COM2	46.204 44.098		Diameter / Length: 1.200	{1} 1.007	Pipe	44.098	Diam/Width: 225	Manhole		
E:382583.494 N:388419.409	2.106									
IP E:382583.494 IP N:388419.409								Not Applicable		

Project:	Date: 15/11/2023		
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Report Details: Type: Network Design Criteria Storm Phase: Storm	Company Address:		



Flow Options

Peak Flow Calculation	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 Inverts
Min. Slope (1:X)	1000.00
Max. Slope (1:X)	40.00
Use Flow Restriction	☒
Reduce Channel Depths	☒

Pipe Size Library

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

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

Manhole Options

Apply Offset	☐
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Manhole Size Library

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

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)	0
Benching Width (mm)	0

Project:	Date: 15/11/2023			
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Report Details: Type: Outfall Details Storm Phase: Storm	Company Address:			

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
COM2	Free Discharge		

Project:	Date: 15/11/2023			
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	bowdenm			
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project:	Date: 15/11/2023		
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Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 100 years: Increase Rainfall (%): +45: 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
PS1	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.60 5	46.00 5	46.047	0.042	3.5	0.012	0.000	3.4	1.507	OK
PS2	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.87 2	45.72 1	45.795	0.074	10.1	0.021	0.000	9.7	4.414	OK
PS4	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.76 1	45.50 8	45.640	0.132	18.8	0.037	0.000	16.5	8.417	OK
PS3	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.46 6	45.86 6	45.921	0.055	6.2	0.015	0.000	6.0	2.671	OK
PS6	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.82 6	45.42 9	45.579	0.150	28.0	0.042	0.000	22.2	13.372	OK
PS5	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.99 0	46.43 0	46.457	0.027	2.9	0.008	0.000	2.8	1.238	OK
PS9	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	46.65 5	44.40 2	45.265	0.863	54.1	0.976	0.000	4.3	51.189	Surcharged
PS7	Design Criteria FSR: 100 years: +45 %: 120 mins: Winter	46.22 1	44.55 2	45.229	0.677	7.6	0.765	0.000	7.2	21.519	OK
PS8	Design Criteria FSR: 100 years: +45 %: 120 mins: Winter	46.42 2	44.46 8	45.230	0.762	24.5	0.862	0.000	6.6	78.873	Surcharged
PS11	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	46.62 7	44.31 8	45.322	1.004	30.5	1.135	0.000	4.3	31.529	Surcharged
PS10	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	47.13 0	46.53 0	46.566	0.036	5.5	0.010	0.000	5.4	2.365	OK
PS21	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	46.35 4	44.29 2	45.333	1.041	24.2	1.177	0.000	4.8	30.578	Surcharged
PS12	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.18 6	45.58 6	45.642	0.056	6.2	0.016	0.000	6.0	2.674	OK
PS13	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	46.23 7	45.24 8	45.570	0.323	12.8	0.091	0.000	12.6	11.389	Surcharged
PS13A	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.20 9	45.61 4	45.662	0.048	3.2	0.014	0.000	3.1	1.401	OK

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PS13B	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.14 2	45.46 4	45.631	0.167	6.1	0.047	0.000	5.2	2.683	Surcharged
PS20	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.30 0	44.33 9	45.515	1.176	24.9	1.330	0.000	26.5	18.377	Surcharged
PS14	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.06 5	45.38 7	45.567	0.180	3.5	0.051	0.000	3.4	1.507	Surcharged
PS15	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.16 7	45.20 0	45.563	0.364	6.7	0.103	0.000	4.3	2.982	Surcharged
PS16	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	46.01 0	45.10 2	45.553	0.451	6.5	0.128	0.000	6.4	4.311	Surcharged
PS19	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	45.95 8	44.55 0	45.541	0.991	11.4	1.121	0.000	13.0	7.696	Surcharged
PS17	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	45.99 5	45.39 5	45.557	0.162	3.3	0.046	0.000	3.2	1.442	Surcharged
PS18	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	45.90 6	44.82 6	45.555	0.729	6.3	0.206	0.000	4.7	2.932	Surcharged
COM1	Design Criteria FSR: 100 years: +45 %: 960 mins: Summer	46.13 9	44.20 0	44.247	0.047	5.0	0.053	0.000	5.0	184.598	OK
COM2	Design Criteria FSR: 100 years: +45 %: 960 mins: Summer	46.20 4	44.09 8	44.142	0.044	5.0	0.000	0.000	5.0	184.598	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



Design Criteria FSR: 100 years: Increase Rainfall (%): +0: 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
PS1	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.60 5	46.00 5	46.040	0.035	2.4	0.010	0.000	2.3	1.038	OK
PS2	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.87 2	45.72 1	45.781	0.060	6.9	0.017	0.000	6.7	3.043	OK
PS4	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.76 1	45.50 8	45.602	0.094	12.9	0.027	0.000	12.2	5.798	OK
PS3	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.46 6	45.86 6	45.911	0.045	4.3	0.013	0.000	4.1	1.852	OK
PS6	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.82 6	45.42 9	45.507	0.078	20.0	0.022	0.000	19.6	9.201	OK
PS5	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.99 0	46.43 0	46.452	0.022	2.0	0.006	0.000	1.9	0.853	OK
PS9	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	46.65 5	44.40 2	44.965	0.563	40.8	0.637	0.000	4.7	35.186	Surcharged
PS7	Design Criteria FSR: 100 years: +0 %: 120 mins: Summer	46.22 1	44.55 2	44.894	0.342	7.3	0.387	0.000	7.1	15.000	OK
PS8	Design Criteria FSR: 100 years: +0 %: 120 mins: Summer	46.42 2	44.46 8	44.897	0.428	23.3	0.484	0.000	8.7	59.218	Surcharged
PS11	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	46.62 7	44.31 8	45.000	0.682	23.5	0.772	0.000	4.7	22.713	Surcharged
PS10	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	47.13 0	46.53 0	46.560	0.030	3.8	0.009	0.000	3.7	1.617	OK
PS21	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	46.35 4	44.29 2	45.008	0.716	20.3	0.810	0.000	5.0	24.519	Surcharged
PS12	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.18 6	45.58 6	45.633	0.047	4.3	0.013	0.000	4.1	1.856	OK
PS13	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.23 7	45.24 8	45.305	0.057	13.4	0.016	0.000	13.1	5.916	OK
PS13A	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.20 9	45.61 4	45.652	0.038	2.2	0.011	0.000	2.2	0.969	OK

Project:		Date: 15/11/2023		
		Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm		Company Address:		



PS13B	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.14 2	45.46 4	45.514	0.050	4.2	0.014	0.000	4.1	1.850	OK
PS20	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	46.30 0	44.33 9	45.130	0.791	20.8	0.895	0.000	20.3	16.591	Surcharged
PS14	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.06 5	45.38 7	45.422	0.035	2.4	0.010	0.000	2.3	1.029	OK
PS15	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	46.16 7	45.20 0	45.259	0.060	4.6	0.017	0.000	4.4	2.026	OK
PS16	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	46.01 0	45.10 2	45.145	0.044	4.6	0.012	0.000	4.2	3.909	OK
PS19	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	45.95 8	44.55 0	45.139	0.589	8.4	0.666	0.000	7.4	6.755	Surcharged
PS17	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	45.99 5	45.39 5	45.419	0.024	2.3	0.007	0.000	2.2	0.976	OK
PS18	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	45.90 6	44.82 6	45.143	0.317	2.9	0.090	0.000	3.3	2.548	Surcharged
COM1	Design Criteria FSR: 100 years: +0 %: 240 mins: Winter	46.13 9	44.20 0	44.247	0.047	5.0	0.053	0.000	5.0	93.113	OK
COM2	Design Criteria FSR: 100 years: +0 %: 120 mins: Winter	46.20 4	44.09 8	44.142	0.044	5.0	0.000	0.000	5.0	65.045	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 30 years: Increase Rainfall (%): +0: 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
PS1	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.60 5	46.00 5	46.035	0.030	1.9	0.009	0.000	1.8	0.801	OK
PS2	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.87 2	45.72 1	45.773	0.052	5.4	0.015	0.000	5.1	2.348	OK
PS4	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.76 1	45.50 8	45.587	0.079	9.9	0.022	0.000	9.3	4.474	OK
PS3	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.46 6	45.86 6	45.905	0.039	3.3	0.011	0.000	3.2	1.429	OK
PS6	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.82 6	45.42 9	45.496	0.067	15.4	0.019	0.000	15.1	7.113	OK
PS5	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.99 0	46.43 0	46.450	0.020	1.5	0.006	0.000	1.5	0.661	OK
PS9	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.65 5	44.40 2	44.801	0.399	30.4	0.451	0.000	4.7	26.741	Surcharged
PS7	Design Criteria FSR: 30 years: +0 %: 60 mins: Winter	46.22 1	44.55 2	44.746	0.194	6.1	0.220	0.000	6.1	9.272	OK
PS8	Design Criteria FSR: 30 years: +0 %: 60 mins: Winter	46.42 2	44.46 8	44.746	0.278	19.7	0.314	0.000	5.7	32.185	Surcharged
PS11	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.62 7	44.31 8	44.820	0.502	17.1	0.568	0.000	4.7	18.077	Surcharged
PS10	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	47.13 0	46.53 0	46.556	0.026	2.9	0.007	0.000	2.9	1.247	OK
PS21	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.35 4	44.29 2	44.824	0.532	16.0	0.602	0.000	5.0	21.213	Surcharged
PS12	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.18 6	45.58 6	45.627	0.041	3.3	0.012	0.000	3.2	1.436	OK
PS13	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.23 7	45.24 8	45.297	0.050	10.3	0.014	0.000	10.1	4.569	OK
PS13A	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.20 9	45.61 4	45.647	0.033	1.7	0.009	0.000	1.7	0.744	OK

Project:		Date: 15/11/2023		
		Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm		Company Address:		



PS13B	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.14 2	45.46 4	45.506	0.042	3.2	0.012	0.000	3.1	1.424	OK
PS20	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.30 0	44.33 9	44.903	0.564	16.3	0.638	0.000	16.0	12.802	Surcharged
PS14	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.06 5	45.38 7	45.417	0.030	1.8	0.009	0.000	1.8	0.795	OK
PS15	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.16 7	45.20 0	45.252	0.052	3.6	0.015	0.000	3.4	1.567	OK
PS16	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	46.01 0	45.10 2	45.132	0.030	5.0	0.009	0.000	5.0	2.279	OK
PS19	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	45.95 8	44.55 0	44.909	0.359	6.5	0.406	0.000	6.0	5.401	Surcharged
PS17	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	45.99 5	45.39 5	45.417	0.022	1.7	0.006	0.000	1.7	0.757	OK
PS18	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	45.90 6	44.82 6	44.911	0.085	2.2	0.024	0.000	2.1	1.928	OK
COM1	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.13 9	44.20 0	44.247	0.047	5.0	0.053	0.000	5.0	15.581	OK
COM2	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	46.20 4	44.09 8	44.142	0.044	5.0	0.000	0.000	5.0	15.581	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



Design Criteria FSR: 2 years: Increase Rainfall (%): +0: 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
PS1	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.60 5	46.00 5	46.027	0.022	1.0	0.006	0.000	0.9	0.424	OK
PS2	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.87 2	45.72 1	45.758	0.037	2.8	0.011	0.000	2.7	1.243	OK
PS4	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.76 1	45.50 8	45.562	0.054	5.2	0.015	0.000	4.8	2.365	OK
PS3	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.46 6	45.86 6	45.895	0.029	1.7	0.008	0.000	1.7	0.757	OK
PS6	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.82 6	45.42 9	45.475	0.046	8.1	0.013	0.000	7.9	3.770	OK
PS5	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.99 0	46.43 0	46.445	0.015	0.8	0.004	0.000	0.8	0.350	OK
PS9	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.65 5	44.40 2	44.625	0.223	12.1	0.252	0.000	4.1	13.935	OK
PS7	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.22 1	44.55 2	44.628	0.076	7.0	0.085	0.000	6.9	3.065	OK
PS8	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.42 2	44.46 8	44.584	0.116	10.6	0.131	0.000	3.3	10.450	OK
PS11	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.62 7	44.31 8	44.627	0.309	5.2	0.350	0.000	4.3	10.819	Surcharged
PS10	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	47.13 0	46.53 0	46.549	0.019	1.6	0.005	0.000	1.5	0.666	OK
PS21	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.35 4	44.29 2	44.627	0.335	7.1	0.379	0.000	5.0	15.202	Surcharged
PS12	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.18 6	45.58 6	45.615	0.029	1.7	0.008	0.000	1.7	0.756	OK
PS13	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.23 7	45.24 8	45.282	0.035	5.4	0.010	0.000	5.2	2.415	OK
PS13A	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.20 9	45.61 4	45.638	0.024	0.9	0.007	0.000	0.9	0.391	OK
PS13B	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.14 2	45.46 4	45.494	0.030	1.7	0.008	0.000	1.6	0.754	OK
PS20	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.30 0	44.33 9	44.644	0.305	8.1	0.345	0.000	7.1	7.229	Surcharged
PS14	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.06 5	45.38 7	45.409	0.022	1.0	0.006	0.000	0.9	0.421	OK
PS15	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.16 7	45.20 0	45.237	0.037	1.9	0.011	0.000	1.8	0.828	OK
PS16	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.01 0	45.10 2	45.124	0.023	2.6	0.006	0.000	2.6	1.202	OK

Project:		Date: 15/11/2023			
		Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Storm		Company Address:			

PS19	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	45.95 8	44.55 0	44.646	0.096	3.6	0.109	0.000	3.2	3.103	OK
PS17	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	45.99 5	45.39 5	45.411	0.016	0.9	0.005	0.000	0.9	0.404	OK
PS18	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	45.90 6	44.82 6	44.855	0.029	1.8	0.008	0.000	1.7	0.779	OK
COM1	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	46.13 9	44.20 0	44.246	0.047	5.0	0.053	0.000	5.0	13.998	OK
COM2	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	46.20 4	44.09 8	44.142	0.044	5.0	0.000	0.000	5.0	6.661	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 1 years: Increase Rainfall (%): +0: 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
PS1	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.60 5	46.00 5	46.025	0.020	0.8	0.006	0.000	0.7	0.328	OK
PS2	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.87 2	45.72 1	45.754	0.033	2.2	0.009	0.000	2.0	0.961	OK
PS4	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.76 1	45.50 8	45.555	0.047	4.0	0.013	0.000	3.7	1.828	OK
PS3	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.46 6	45.86 6	45.891	0.025	1.3	0.007	0.000	1.3	0.583	OK
PS6	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.82 6	45.42 9	45.470	0.041	6.2	0.012	0.000	6.0	2.918	OK
PS5	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.99 0	46.43 0	46.443	0.013	0.6	0.004	0.000	0.6	0.269	OK
PS9	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	46.65 5	44.40 2	44.584	0.182	8.2	0.205	0.000	3.2	8.863	OK
PS7	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.22 1	44.55 2	44.616	0.064	5.5	0.072	0.000	5.3	2.372	OK
PS8	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.42 2	44.46 8	44.564	0.096	6.9	0.109	0.000	1.5	3.377	OK
PS11	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	46.62 7	44.31 8	44.584	0.266	4.7	0.301	0.000	3.6	7.368	Surcharged
PS10	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	47.13 0	46.53 0	46.546	0.016	1.2	0.005	0.000	1.1	0.518	OK
PS21	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	46.35 4	44.29 2	44.584	0.292	5.5	0.330	0.000	4.9	12.030	Surcharged
PS12	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.18 6	45.58 6	45.612	0.026	1.3	0.007	0.000	1.3	0.582	OK
PS13	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.23 7	45.24 8	45.278	0.030	4.2	0.008	0.000	4.0	1.866	OK
PS13A	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.20 9	45.61 4	45.635	0.021	0.7	0.006	0.000	0.7	0.307	OK
PS13B	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.14 2	45.46 4	45.490	0.026	1.3	0.007	0.000	1.3	0.583	OK
PS20	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	46.30 0	44.33 9	44.593	0.254	6.2	0.288	0.000	5.5	5.878	Surcharged
PS14	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.06 5	45.38 7	45.407	0.020	0.7	0.006	0.000	0.7	0.325	OK
PS15	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.16 7	45.20 0	45.232	0.033	1.4	0.009	0.000	1.3	0.636	OK
PS16	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.01 0	45.10 2	45.122	0.020	2.0	0.006	0.000	2.0	0.925	OK

Project:		Date: 15/11/2023			
		Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Storm		Company Address:			

PS19	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	45.95 8	44.55 0	44.596	0.046	4.0	0.052	0.000	3.5	1.834	OK
PS17	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	45.99 5	45.39 5	45.410	0.015	0.7	0.004	0.000	0.7	0.311	OK
PS18	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	45.90 6	44.82 6	44.851	0.025	1.4	0.007	0.000	1.3	0.600	OK
COM1	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.13 9	44.20 0	44.246	0.046	4.9	0.052	0.000	4.9	6.254	OK
COM2	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	46.20 4	44.09 8	44.142	0.044	4.9	0.000	0.000	4.9	6.254	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 100 years: Increase Rainfall (%): +45: 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
Cellular Storage	Design Criteria FSR: 100 years: +45 %: 120 mins: Winter	45.229	45.229	0.760	0.760	31.3	72.207	0.000	0.000	4.2	27.425	6.020	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 100 years: Increase Rainfall (%): +0: 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Cellular Storage	Design Criteria FSR: 100 years: +0 %: 120 mins: Summer	44.894	44.894	0.425	0.425	29.8	40.343	0.000	0.000	4.6	31.770	47.492	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 30 years: Increase Rainfall (%): +0: 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Cellular Storage	Design Criteria FSR: 30 years: +0 %: 60 mins: Winter	44.746	44.746	0.277	0.277	25.4	26.273	0.000	0.000	4.4	14.574	65.804	OK

Project:	Date: 15/11/2023			
	Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:			



Design Criteria FSR: 2 years: Increase Rainfall (%): +0: 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
Cellular Storage	Design Criteria FSR: 2 years: +0 %: 60 mins: Summer	44.572	44.572	0.103	0.103	13.2	9.769	0.000	0.000	3.0	7.573	87.286	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 1 years: Increase Rainfall (%): +0: 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Cellular Storage	Design Criteria FSR: 1 years: +0 %: 60 mins: Summer	44.538	44.538	0.069	0.069	8.1	6.513	0.000	0.000	1.9	4.669	91.524	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 100 years: Increase Rainfall (%): +45: 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	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS1	PS2	46.605	46.047	0.058	1.507	0.5	0.17	3.4	OK
1.001	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS2	PS4	46.872	45.795	0.103	4.414	0.8	0.49	9.7	OK
2.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS3	PS4	46.466	45.921	0.093	2.671	0.5	0.29	6.0	OK
1.002	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS4	PS6	46.761	45.640	0.141	8.417	1.0	0.83	16.5	OK
3.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS5	PS6	46.990	46.457	0.088	1.238	0.3	0.08	2.8	OK
1.003	Design Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	PS6	PS9	46.826	45.550	0.150	13.370	1.3	0.61	22.4	OK
4.001	Design Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	PS8	PS9	46.422	44.906	0.225	0.000	0.1	0.12	4.9	Surcharged
1.004	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS9	PS11	46.655	45.250	0.225	0.626	0.3	0.12	5.0	Surcharged
5.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS10	PS11	47.130	46.566	0.150	2.365	0.3	0.14	5.4	OK
1.005	Design Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	PS11	PS21	46.627	45.277	0.225	0.400	0.1	0.12	5.0	Surcharged
6.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS12	PS13	46.186	45.642	0.150	2.674	0.6	0.3	6.0	OK

Project:	Date: 15/11/2023			
	Designed by: bowdenm	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:			

7.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS13A	PS13B	46.209	45.662	0.100	1.401	0.7	0.44	3.1	OK
7.001	Design Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	PS13B	PS13	46.142	45.581	0.100	2.682	0.7	0.64	5.6	Surcharged
6.001	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	PS13	PS20	46.237	45.570	0.150	11.389	0.7	0.3	12.6	Surcharged
8.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS14	PS15	46.065	45.567	0.150	1.500	0.4	0.17	3.4	Surcharged
8.001	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	PS15	PS16	46.167	45.513	0.150	3.901	0.9	0.3	4.4	Surcharged
8.002	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	PS16	PS19	46.010	45.509	0.150	5.666	0.7	0.13	6.7	Surcharged
9.000	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS17	PS18	45.995	45.557	0.150	1.422	0.5	0.09	3.2	Surcharged
9.001	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS18	PS19	45.906	45.555	0.150	2.664	0.4	0.23	4.7	Surcharged
8.003	Design Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	PS19	PS20	45.958	45.505	0.225	9.470	0.3	0.33	13.4	Surcharged
6.002	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	PS20	PS21	46.300	45.515	0.150	17.934	1.5	1.92	26.5	Surcharged
1.006	Design Criteria FSR: 100 years: +45 %: 360 mins: Summer	Pipe	PS21	COM1	46.354	45.152	0.045	148.781	0.9	0.07	5.0	Surcharged
1.007	Design Criteria FSR: 100 years: +45 %: 960 mins: Summer	Pipe	COM1	COM2	46.139	44.247	0.046	184.598	0.9	0.09	5.0	OK
No Delay	Design Criteria FSR: 100 years: +45 %: 15 mins: Summer	No Delay	PS7	Cellular Storage		44.910	0.072	10.468	0.0		24.5	
Pipe	Design Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Cellular Storage	PS8	46.102	44.909	0.225	0.000	0.1	0.76	4.8	Surcharged

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 100 years: Increase Rainfall (%): +0: 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	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS1	PS2	46.605	46.040	0.047	1.038	0.5	0.12	2.3	OK
1.001	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS2	PS4	46.872	45.781	0.077	3.043	0.7	0.33	6.7	OK
2.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS3	PS4	46.466	45.911	0.069	1.852	0.5	0.2	4.1	OK
1.002	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS4	PS6	46.761	45.602	0.086	5.798	1.2	0.61	12.2	OK
3.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS5	PS6	46.990	46.452	0.050	0.853	0.4	0.05	1.9	OK
1.003	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS6	PS9	46.826	45.507	0.150	9.201	1.1	0.53	19.6	OK
4.001	Design Criteria FSR: 100 years: +0 %: 240 mins: Winter	Pipe	PS8	PS9	46.422	44.845	0.225	16.504	0.5	0.13	5.1	Surcharged
1.004	Design Criteria FSR: 100 years: +0 %: 240 mins: Winter	Pipe	PS9	PS11	46.655	44.842	0.225	44.822	0.3	0.13	5.2	Surcharged
5.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS10	PS11	47.130	46.560	0.150	1.617	0.2	0.09	3.7	OK
1.005	Design Criteria FSR: 100 years: +0 %: 240 mins: Summer	Pipe	PS11	PS21	46.627	44.864	0.225	57.767	0.3	0.13	5.2	Surcharged
6.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS12	PS13	46.186	45.633	0.052	1.856	0.8	0.21	4.1	OK

Project:				Date: 15/11/2023								
				Designed by: bowdenm	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Storm				Company Address:								

7.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS13A	PS13B	46.209	45.652	0.044	0.969	0.7	0.3	2.2	OK
7.001	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS13B	PS13	46.142	45.514	0.054	1.850	1.0	0.47	4.1	OK
6.001	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS13	PS20	46.237	45.305	0.150	5.916	0.7	0.32	13.1	OK
8.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS14	PS15	46.065	45.422	0.047	1.029	0.5	0.12	2.3	OK
8.001	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS15	PS16	46.167	45.259	0.047	2.026	0.9	0.3	4.4	OK
8.002	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS16	PS19	46.010	45.136	0.150	2.940	0.7	0.12	6.5	OK
9.000	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS17	PS18	45.995	45.419	0.140	0.976	0.4	0.06	2.2	OK
9.001	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS18	PS19	45.906	45.087	0.150	1.888	0.4	0.24	5.0	Surcharged
8.003	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	Pipe	PS19	PS20	45.958	45.064	0.225	4.939	0.3	0.27	10.9	Surcharged
6.002	Design Criteria FSR: 100 years: +0 %: 30 mins: Summer	Pipe	PS20	PS21	46.300	45.130	0.150	16.555	1.2	1.47	20.3	Surcharged
1.006	Design Criteria FSR: 100 years: +0 %: 240 mins: Winter	Pipe	PS21	COM1	46.354	44.841	0.045	93.124	0.9	0.07	5.0	Surcharged
1.007	Design Criteria FSR: 100 years: +0 %: 120 mins: Winter	Pipe	COM1	COM2	46.139	44.247	0.046	65.045	0.9	0.09	5.0	OK
No Delay	Design Criteria FSR: 100 years: +0 %: 15 mins: Summer	No Delay	PS7	Cellular Storage		44.744	0.067	7.263	0.0		16.9	
Pipe	Design Criteria FSR: 100 years: +0 %: 240 mins: Winter	Pipe	Cellular Storage	PS8	46.102	44.843	0.225	16.456	0.3	0.77	4.9	Surcharged

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 30 years: Increase Rainfall (%): +0: 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	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS1	PS2	46.605	46.035	0.041	0.801	0.5	0.09	1.8	OK
1.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS2	PS4	46.872	45.773	0.066	2.348	0.7	0.26	5.1	OK
2.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS3	PS4	46.466	45.905	0.059	1.429	0.5	0.15	3.2	OK
1.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS4	PS6	46.761	45.587	0.073	4.474	1.1	0.47	9.3	OK
3.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS5	PS6	46.990	46.450	0.043	0.661	0.3	0.04	1.5	OK
1.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS6	PS9	46.826	45.496	0.150	7.113	0.9	0.41	15.1	OK
4.001	Design Criteria FSR: 30 years: +0 %: 120 mins: Winter	Pipe	PS8	PS9	46.422	44.737	0.225	8.401	0.5	0.12	4.8	Surcharged
1.004	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PS9	PS11	46.655	44.801	0.225	0.812	0.4	0.12	4.7	Surcharged
5.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS10	PS11	47.130	46.556	0.150	1.247	0.2	0.07	2.9	OK
1.005	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PS11	PS21	46.627	44.820	0.225	3.531	0.1	0.12	4.7	Surcharged
6.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS12	PS13	46.186	45.627	0.045	1.436	0.7	0.16	3.2	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
	Company Address:		
Report Details: Type: Connections Summary Storm Phase: Storm			



7.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS13A	PS13B	46.209	45.647	0.038	0.744	0.6	0.23	1.7	OK
7.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS13B	PS13	46.142	45.506	0.046	1.424	0.9	0.36	3.1	OK
6.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS13	PS20	46.237	45.297	0.150	4.569	0.6	0.24	10.1	OK
8.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS14	PS15	46.065	45.417	0.041	0.795	0.5	0.09	1.8	OK
8.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS15	PS16	46.167	45.252	0.041	1.567	0.9	0.23	3.4	OK
8.002	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS16	PS19	46.010	45.132	0.150	2.279	0.6	0.1	5.0	OK
9.000	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS17	PS18	45.995	45.417	0.031	0.757	0.7	0.05	1.7	OK
9.001	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS18	PS19	45.906	44.865	0.150	1.468	0.4	0.15	3.1	OK
8.003	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	PS19	PS20	45.958	44.860	0.225	4.037	0.3	0.2	8.2	Surcharged
6.002	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PS20	PS21	46.300	44.903	0.150	12.764	0.9	1.16	16.0	Surcharged
1.006	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	PS21	COM1	46.354	44.824	0.045	15.672	0.9	0.07	5.0	Surcharged
1.007	Design Criteria FSR: 30 years: +0 %: 30 mins: Summer	Pipe	COM1	COM2	46.139	44.247	0.046	15.581	0.9	0.09	5.0	OK
No Delay	Design Criteria FSR: 30 years: +0 %: 15 mins: Summer	No Delay	PS7	Cellular Storage		44.668	0.064	5.659	0.0		13.1	
Pipe	Design Criteria FSR: 30 years: +0 %: 120 mins: Winter	Pipe	Cellular Storage	PS8	46.102	44.737	0.225	8.451	0.3	0.78	4.9	Surcharged

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 2 years: Increase Rainfall (%): +0: 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	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS1	PS2	46.605	46.027	0.030	0.424	0.4	0.05	0.9	OK
1.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS2	PS4	46.872	45.758	0.046	1.243	0.6	0.13	2.7	OK
2.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS3	PS4	46.466	45.895	0.041	0.757	0.4	0.08	1.7	OK
1.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS4	PS6	46.761	45.562	0.050	2.365	0.9	0.24	4.8	OK
3.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS5	PS6	46.990	46.445	0.030	0.350	0.3	0.02	0.8	OK
1.003	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS6	PS9	46.826	45.475	0.122	3.770	0.7	0.21	7.9	OK
4.001	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	PS8	PS9	46.422	44.584	0.182	0.000	0.4	0.09	3.7	OK
1.004	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	PS9	PS11	46.655	44.625	0.225	5.007	0.3	0.1	4.1	OK
5.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS10	PS11	47.130	46.549	0.150	0.666	0.2	0.04	1.5	OK
1.005	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	PS11	PS21	46.627	44.627	0.225	7.177	0.2	0.11	4.3	Surcharged
6.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS12	PS13	46.186	45.615	0.032	0.756	0.6	0.08	1.7	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
	Company Address:		
Report Details: Type: Connections Summary Storm Phase: Storm			



7.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS13A	PS13B	46.209	45.638	0.027	0.391	0.5	0.12	0.9	OK
7.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS13B	PS13	46.142	45.494	0.032	0.754	0.8	0.19	1.6	OK
6.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS13	PS20	46.237	45.282	0.150	2.415	0.6	0.13	5.2	OK
8.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS14	PS15	46.065	45.409	0.030	0.421	0.4	0.05	0.9	OK
8.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS15	PS16	46.167	45.237	0.030	0.828	0.7	0.12	1.8	OK
8.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS16	PS19	46.010	45.124	0.052	1.202	0.8	0.05	2.6	OK
9.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS17	PS18	45.995	45.411	0.023	0.404	0.5	0.02	0.9	OK
9.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS18	PS19	45.906	44.855	0.053	0.779	0.5	0.08	1.7	OK
8.003	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS19	PS20	45.958	44.640	0.195	2.374	0.2	0.11	4.6	OK
6.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	PS20	PS21	46.300	44.638	0.150	5.043	0.4	0.56	7.7	Surcharged
1.006	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	PS21	COM1	46.354	44.627	0.045	14.075	0.9	0.07	5.0	Surcharged
1.007	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	COM1	COM2	46.139	44.246	0.045	6.661	0.9	0.09	5.0	OK
No Delay	Design Criteria FSR: 2 years: +0 %: 15 mins: Summer	No Delay	PS7	Cellular Storage		44.628	0.051	3.057	0.0		6.8	
Pipe	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	Cellular Storage	PS8	46.102	44.567	0.098	0.005	0.3	0.51	3.3	OK

Project:	Date: 15/11/2023		
	Designed by: bowdenm	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





Design Criteria FSR: 1 years: Increase Rainfall (%): +0: 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	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS1	PS2	46.605	46.025	0.026	0.328	0.3	0.04	0.7	OK
1.001	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS2	PS4	46.872	45.754	0.040	0.961	0.5	0.1	2.0	OK
2.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS3	PS4	46.466	45.891	0.036	0.583	0.4	0.06	1.3	OK
1.002	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS4	PS6	46.761	45.555	0.044	1.828	0.9	0.19	3.7	OK
3.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS5	PS6	46.990	46.443	0.027	0.269	0.3	0.02	0.6	OK
1.003	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS6	PS9	46.826	45.470	0.103	2.918	0.7	0.16	6.0	OK
4.001	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	PS8	PS9	46.422	44.559	0.143	0.000	0.5	0.06	2.5	OK
1.004	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	PS9	PS11	46.655	44.584	0.224	4.135	0.3	0.08	3.2	OK
5.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS10	PS11	47.130	46.546	0.138	0.518	0.2	0.03	1.1	OK
1.005	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	PS11	PS21	46.627	44.584	0.225	6.061	0.3	0.09	3.6	Surcharged
6.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS12	PS13	46.186	45.612	0.028	0.582	0.6	0.06	1.3	OK

Project:				Date: 15/11/2023							
				Designed by: bowdenm		Checked by:					
Report Details: Type: Connections Summary Storm Phase: Storm				Company Address:							

7.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS13A	PS13B	46.209	45.635	0.023	0.307	0.5	0.09	0.7	OK
7.001	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS13B	PS13	46.142	45.490	0.028	0.583	0.7	0.15	1.3	OK
6.001	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS13	PS20	46.237	45.278	0.136	1.866	0.5	0.1	4.0	OK
8.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS14	PS15	46.065	45.407	0.026	0.325	0.3	0.04	0.7	OK
8.001	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS15	PS16	46.167	45.232	0.026	0.636	0.6	0.09	1.3	OK
8.002	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS16	PS19	46.010	45.122	0.032	0.925	0.7	0.04	2.0	OK
9.000	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS17	PS18	45.995	45.410	0.020	0.311	0.5	0.02	0.7	OK
9.001	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS18	PS19	45.906	44.851	0.034	0.600	0.4	0.06	1.3	OK
8.003	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS19	PS20	45.958	44.596	0.150	1.834	0.2	0.09	3.5	OK
6.002	Design Criteria FSR: 1 years: +0 %: 30 mins: Winter	Pipe	PS20	PS21	46.300	44.589	0.150	5.892	0.3	0.41	5.6	Surcharged
1.006	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	PS21	COM1	46.354	44.584	0.044	6.332	0.9	0.07	4.9	Surcharged
1.007	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	COM1	COM2	46.139	44.246	0.045	6.254	0.9	0.08	4.9	OK
No Delay	Design Criteria FSR: 1 years: +0 %: 15 mins: Summer	No Delay	PS7	Cellular Storage		44.616	0.044	2.364	0.0		5.3	
Pipe	Design Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	Cellular Storage	PS8	46.102	44.534	0.071	0.002	0.3	0.3	1.9	OK