

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Junctions Storm Phase: D3 Design	Company: Lally Chartered Engineers		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
MH 3.5	Manhole	644569.334	738843.554	107.000	1.850	105.150	Circular	1.500
MH 3.6	Manhole	644578.467	738869.297	106.000	1.533	104.467	Circular	1.500
MH 3.7	Manhole	644572.297	738909.503	105.300	1.850	103.450	Circular	1.500
MH 3.8	Manhole	644525.677	738907.817	107.500	2.400	105.100	Circular	1.500
MH 3.9	Manhole	644598.861	738913.519	104.500	1.721	102.779	Circular	1.500
MH 3.10	Manhole	644634.127	738900.389	104.000	1.725	102.275	Circular	1.800
MH 3.35	Manhole	644681.531	738874.164	104.250	1.500	102.750	Circular	1.500
MH 3.24	Manhole	644666.685	738965.273	103.720	2.171	101.549	Circular	1.500
MH 3.32	Manhole	644734.150	738853.074	104.500	2.535	101.965	Circular	1.500
MH 3.31	Manhole	644757.068	738831.214	104.300	2.072	102.228	Circular	1.500
MH 3.29	Manhole	644792.142	738806.377	104.100	1.541	102.559	Circular	1.800
MH 3.37	Manhole	644765.416	738917.254	103.720	2.172	101.548	Circular	1.500
MH 3.39	Manhole	644798.712	738984.904	102.900	1.729	101.171	Circular	1.800
MH 3.26	Manhole	644701.050	739032.971	102.900	2.111	100.789	Circular	1.800
MH 3.34	Manhole	644706.730	738861.706	104.500	1.937	102.563	Circular	1.500
MH 3.2	Manhole	644548.083	738797.357	108.500	1.681	106.819	Circular	1.500
MH 3.14	Manhole	644647.971	738830.642	106.700	1.544	105.156	Circular	1.500
MH 3.12	Manhole	644608.760	738849.446	106.500	1.634	104.866	Circular	1.500
MH 3.22	Manhole	644673.060	738855.512	105.700	1.574	104.126	Circular	1.500
MH 3.19	Manhole	644607.409	738886.535	105.600	1.723	103.877	Circular	1.500
MH 3.17	Manhole	644596.775	738865.537	105.700	1.666	104.034	Circular	1.500
MH 3.21	Manhole	644661.262	738832.182	105.800	1.500	104.300	Circular	1.500
MH 3.1	Manhole	644571.614	738783.235	108.500	1.498	107.002	Circular	1.500
MH 3.4	Manhole	644554.820	738814.071	108.500	2.213	106.287	Circular	1.500
MH 3.13	Manhole	644639.062	738810.882	106.800	1.500	105.300	Circular	1.500
MH 3.15	Manhole	644628.323	738840.213	106.600	1.590	105.010	Circular	1.500
MH 3.16	Manhole	644592.950	738857.526	106.400	2.307	104.093	Circular	1.500
MH 3.11	Manhole	644603.256	738836.806	106.650	1.646	105.004	Circular	1.500
MH 3.20	Manhole	644623.623	738879.189	105.500	2.988	102.512	Circular	1.500
MH 3.18	Manhole	644631.891	738846.669	105.800	1.500	104.300	Circular	1.500
MH 3.23	Manhole	644650.730	738932.631	103.860	1.948	101.912	Circular	1.500
MH 3.36	Manhole	644750.108	738884.001	104.100	2.369	101.731	Circular	1.500
MH 3.25	Manhole	644683.078	739000.119	103.300	2.136	101.164	Circular	1.500
MH 3.38	Manhole	644783.110	738951.550	103.080	1.725	101.355	Circular	1.500
MH 3.30	Manhole	644812.082	738799.354	104.200	1.500	102.700	Circular	1.500
MH 3.28	Manhole	644810.581	738831.274	104.300	1.534	102.766	Circular	1.500
MH 3.40	Manhole	644765.772	739001.030	103.090	2.102	100.988	Circular	1.800
MH 3.33	Manhole	644692.787	738832.395	105.000	1.500	103.500	Circular	1.500
MH 3.27	Manhole	644720.880	739030.660	103.180	2.491	100.689	Circular	1.800
MH 3.42	Manhole	644803.214	739010.139	102.750	2.125	100.625	Circular	1.500
MH 3.3	Manhole	644498.812	738807.096	109.000	1.846	107.154	Circular	1.200
MH 3.41	Manhole	644718.251	739024.483	103.000	2.277	100.723	Circular	1.800


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Name	Lock	Access Required	Intersection Easting (m)	Intersection Northing (m)
MH 3.5	All	<input checked="" type="checkbox"/>	644569.334	738843.554
MH 3.6	All	<input checked="" type="checkbox"/>	644578.467	738869.297
MH 3.7	All	<input checked="" type="checkbox"/>	644572.297	738909.503
MH 3.8	All	<input checked="" type="checkbox"/>	644525.677	738907.817
MH 3.9	All	<input checked="" type="checkbox"/>	644598.861	738913.519
MH 3.10	All	<input checked="" type="checkbox"/>	644634.127	738900.389
MH 3.35	All	<input checked="" type="checkbox"/>	644681.531	738874.164
MH 3.24	All	<input checked="" type="checkbox"/>	644666.685	738965.273
MH 3.32	All	<input checked="" type="checkbox"/>	644734.150	738853.074
MH 3.31	All	<input checked="" type="checkbox"/>	644757.068	738831.214
MH 3.29	All	<input checked="" type="checkbox"/>	644792.142	738806.377
MH 3.37	All	<input checked="" type="checkbox"/>	644765.416	738917.254
MH 3.39	All	<input checked="" type="checkbox"/>	644798.712	738984.904
MH 3.26	All	<input checked="" type="checkbox"/>	644701.050	739032.971
MH 3.34	All	<input checked="" type="checkbox"/>	644706.730	738861.706
MH 3.2	All	<input checked="" type="checkbox"/>	644548.083	738797.357
MH 3.14	All	<input checked="" type="checkbox"/>	644647.971	738830.642
MH 3.12	All	<input checked="" type="checkbox"/>	644608.760	738849.446
MH 3.22	All	<input checked="" type="checkbox"/>	644673.060	738855.512
MH 3.19	All	<input checked="" type="checkbox"/>	644607.409	738886.535
MH 3.17	All	<input checked="" type="checkbox"/>	644596.775	738865.537
MH 3.21	All	<input checked="" type="checkbox"/>	644661.262	738832.182
MH 3.1	All	<input checked="" type="checkbox"/>	644571.614	738783.235
MH 3.4	All	<input checked="" type="checkbox"/>	644554.820	738814.071
MH 3.13	All	<input checked="" type="checkbox"/>	644639.062	738810.882
MH 3.15	All	<input checked="" type="checkbox"/>	644628.323	738840.213
MH 3.16	All	<input checked="" type="checkbox"/>	644592.950	738857.526
MH 3.11	All	<input checked="" type="checkbox"/>	644603.256	738836.806
MH 3.20	All	<input checked="" type="checkbox"/>	644623.623	738879.189
MH 3.18	All	<input checked="" type="checkbox"/>	644631.891	738846.669
MH 3.23	All	<input checked="" type="checkbox"/>	644650.730	738932.631
MH 3.36	All	<input checked="" type="checkbox"/>	644750.108	738884.001
MH 3.25	All	<input checked="" type="checkbox"/>	644683.078	739000.119
MH 3.38	All	<input checked="" type="checkbox"/>	644783.110	738951.550
MH 3.30	All	<input checked="" type="checkbox"/>	644812.082	738799.354
MH 3.28	All	<input checked="" type="checkbox"/>	644810.581	738831.274
MH 3.40	All	<input checked="" type="checkbox"/>	644765.772	739001.030
MH 3.33	All	<input checked="" type="checkbox"/>	644692.787	738832.395
MH 3.27	All	<input checked="" type="checkbox"/>	644720.880	739030.660
MH 3.42	All	<input checked="" type="checkbox"/>	644803.214	739010.139
MH 3.3	All	<input checked="" type="checkbox"/>	644498.812	738807.096
MH 3.41	All	<input checked="" type="checkbox"/>	644718.251	739024.483

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH 3.5	Inlet	3.1.002 CA107	(None)	No Restriction
MH 3.6	Inlet	CA108 3.1.003	(None)	No Restriction
MH 3.7	Inlet	CA130 3.1.004	(None)	No Restriction
	Inlet (1)	3.3.000	(None)	No Restriction
	Inlet (3)	CA150	(None)	No Restriction
MH 3.8	Inlet (1)	CA149	(None)	No Restriction
MH 3.9	Inlet	CA131	(None)	No Restriction
	Inlet (1)	3.1.005	(None)	No Restriction


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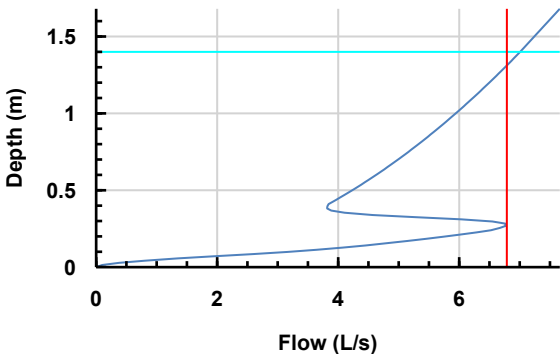
Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH 3.10	Inlet	CA132 3.4.005	(None)	No Restriction
	Inlet (1)	3.1.006	(None)	No Restriction
MH 3.35	Inlet	CA133	(None)	No Restriction
MH 3.24	Inlet	CA152 3.1.008 CA180	(None)	No Restriction
	Inlet (2)	CA153	(None)	No Restriction
MH 3.32	Inlet	CA140 CA139 3.10.001	(None)	No Restriction
	Inlet (1)	3.8.002	(None)	No Restriction
MH 3.31	Inlet	CA141	(None)	No Restriction
	Inlet (1)	3.8.001	(None)	No Restriction
MH 3.29	Inlet	3.8.000 3.9.000 CA148	(None)	No Restriction
	Inlet (3)	CA142	(None)	No Restriction
MH 3.37	Inlet	CA174 3.8.004 CA181	(None)	No Restriction
	Inlet (2)	CA177	(None)	No Restriction
	Inlet (3)	CA176	(None)	No Restriction
	Inlet (4)	CA175	(None)	No Restriction
MH 3.39	Inlet	CA169 3.8.006	(None)	No Restriction
	Inlet (2)	CA173	(None)	No Restriction
	Inlet (3)	CA170	(None)	No Restriction
	Inlet (4)	CA171	(None)	No Restriction
MH 3.26	Inlet	CA155 3.1.010	(None)	No Restriction
MH 3.34	Inlet	3.10.000 CA134 3.11.000	(None)	No Restriction
	Inlet (2)	CA135	(None)	No Restriction
MH 3.2	Inlet	CA105 3.1.000	(None)	No Restriction
	Inlet (1)	3.2.000	(None)	No Restriction
MH 3.14	Inlet	CA116 3.5.000	(None)	No Restriction
	Inlet (2)	CA117	(None)	No Restriction
MH 3.12	Inlet	CA111 3.4.000 CA113 3.5.002	(None)	No Restriction
	Inlet (1)	CA112	(None)	No Restriction
	Inlet (2)	CA114	(None)	No Restriction
MH 3.22	Inlet	CA124 CA125 3.7.000	(None)	No Restriction
MH 3.19	Inlet	3.4.003 CA128	(None)	No Restriction
MH 3.17	Inlet	3.4.002 3.6.000	(None)	No Restriction
	Inlet (3)	CA119	(None)	No Restriction
MH 3.21	Inlet	CA123	(None)	No Restriction


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Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
MH 3.1	Inlet	CA100 CA101 CA102	(None)	No Restriction
MH 3.4	Inlet	CA106 CA104 CA103 3.1.001	(None)	No Restriction
MH 3.13	Inlet	CA118	(None)	No Restriction
MH 3.15	Inlet	3.5.001	(None)	No Restriction
	Inlet (1)	CA115	(None)	No Restriction
MH 3.16	Inlet	CA110 CA109 3.4.001	(None)	No Restriction
MH 3.20	Inlet	CA129 CA127 3.4.004 3.7.001	(None)	No Restriction
MH 3.18	Inlet	CA126 CA122 CA121	(None)	No Restriction
	Inlet (1)	CA120	(None)	No Restriction
MH 3.23	Inlet	3.1.007 CA179 CA151	(None)	No Restriction
MH 3.36	Inlet	3.8.003 CA178	(None)	No Restriction
MH 3.25	Inlet	CA154 3.1.009 CA183	(None)	No Restriction
MH 3.38	Inlet	3.8.005 CA182 CA172	(None)	No Restriction
MH 3.30	Inlet	CA143 CA144	(None)	No Restriction
MH 3.28	Inlet	CA146 CA147 CA145	(None)	No Restriction
MH 3.40	Inlet	3.8.007 CA185	(None)	No Restriction
MH 3.33	Inlet	CA137 CA138 CA136	(None)	No Restriction
MH 3.27	Inlet	3.1.011 3.8.009	(None)	No Restriction
MH 3.42	Inlet	3.1.013	(None)	No Restriction
MH 3.3	Inlet	CA186	(None)	No Restriction
MH 3.41	Inlet	3.8.008 CA184 CA156	(None)	No Restriction

Outlets

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Report Details: Type: Junctions Storm Phase: D3 Design	Company: Lally Chartered Engineers			

Junction	Outlet Name	Outgoing Connection	Outlet Type	
MH 3.5	Outlet	3.1.003	Free Discharge	
MH 3.6	Outlet	3.1.004	Free Discharge	
MH 3.7	Outlet	3.1.005	Free Discharge	
MH 3.8	Outlet	3.3.000	Free Discharge	
MH 3.9	Outlet	3.1.006	Free Discharge	
MH 3.10	Outlet	3.1.007	Free Discharge	
MH 3.35	Outlet	3.11.000	Free Discharge	
MH 3.24	Outlet	3.1.009	Free Discharge	
MH 3.32	Outlet	3.8.003	Free Discharge	
MH 3.31	Outlet	3.8.002	Free Discharge	
MH 3.29	Outlet	3.8.001	Free Discharge	
MH 3.37	Outlet	3.8.005	Free Discharge	
MH 3.39	Outlet	3.8.007	Free Discharge	
MH 3.26	Outlet	3.1.011	Free Discharge	
MH 3.34	Outlet	3.10.001	Free Discharge	
MH 3.2	Outlet	3.1.001	Free Discharge	
MH 3.14	Outlet	3.5.001	Free Discharge	
MH 3.12	Outlet	3.4.001	Free Discharge	
MH 3.22	Outlet	3.7.001	Free Discharge	
MH 3.19	Outlet	3.4.004	Free Discharge	
MH 3.17	Outlet	3.4.003	Free Discharge	
MH 3.21	Outlet	3.7.000	Free Discharge	
MH 3.1	Outlet	3.1.000	Free Discharge	
MH 3.4	Outlet	3.1.002	Free Discharge	
MH 3.13	Outlet	3.5.000	Free Discharge	
MH 3.15	Outlet	3.5.002	Free Discharge	
MH 3.16	Outlet	3.4.002	Free Discharge	
MH 3.11	Outlet	3.4.000	Free Discharge	
MH 3.20	Outlet	3.4.005	Free Discharge	
MH 3.18	Outlet	3.6.000	Free Discharge	
MH 3.23	Outlet	3.1.008	Free Discharge	
MH 3.36	Outlet	3.8.004	Free Discharge	
MH 3.25	Outlet	3.1.010	Free Discharge	
MH 3.38	Outlet	3.8.006	Free Discharge	
MH 3.30	Outlet	3.9.000	Free Discharge	
MH 3.28	Outlet	3.8.000	Free Discharge	
MH 3.40	Outlet	3.8.008	Free Discharge	
MH 3.33	Outlet	3.10.000	Free Discharge	
MH 3.27	Outlet	3.1.012	Free Discharge	
MH 3.42	Outlet	(None)	Hydro-Brake®	
	Invert Level (m)	100.625		
	Design Depth (m)	1.400		
	Design Flow (L/s)	7.0		
	Objective	Minimise Upstream Storage Requirements		
	Application	Surface Water Only		
	Sump Available	<input type="checkbox"/>		
	Unit Reference	CHE-0112-7000-1400-7000		
				
	MH 3.3	Outlet	3.2.000	Free Discharge
MH 3.41	Outlet	3.8.009	Free Discharge	

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Report Details: Type: Stormwater Controls Storm Phase: D3 Design	Company: Lally Chartered Engineers			



Pond

Type : Pond

Dimensions

Exceedance Level (m)	102.350
Depth (m)	2.000
Base Level (m)	100.350
Freeboard (mm)	300
Initial Depth (m)	0.300
Porosity (%)	100
Average Slope (1:X)	4.00
Total Volume (m³)	1450.121

Depth (m)	Area (m²)	Volume (m³)
0.000	527.71	0.000
2.000	1380.25	1840.941

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	3.1.012
Bypass Destination	(None)
Capacity Type	No Restriction


Outlets

Outlet


Outgoing Connection	3.1.013
Outlet Type	Orifice
Diameter (m)	0.150
Coefficient of Discharge	0.600
Invert Level (m)	100.650

Advanced


Perimeter	Circular
Length (m)	81.259
Friction Scheme	Manning's n
n	0.03

Project: ADMIRAL	Date: 09/03/2026			
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Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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
MH 3.5	107.000 105.150	Diameter / Length: 1.500	{1} 3.1.002	Pipe	105.465	Diam/Width:225	Manhole - Access Required
E:644569.334 N:738843.554	1.850		{a} 3.1.003	Pipe	105.150	Diam/Width:225	
MH 3.6	106.000 104.467	Diameter / Length: 1.500	{1} 3.1.003	Pipe	104.467	Diam/Width:225	Manhole - Access Required
E:644578.467 N:738869.297	1.533		{a} 3.1.004	Pipe	104.467	Diam/Width:225	
MH 3.7	105.300 103.450	Diameter / Length: 1.500	{1} 3.1.004	Pipe	103.450	Diam/Width:225	Manhole - Access Required
E:644572.297 N:738909.503	1.850		{2} 3.3.000	Pipe	103.934	Diam/Width:150	
			{a} 3.1.005	Pipe	103.450	Diam/Width:225	Not Applicable
MH 3.8	107.500 105.100	Diameter / Length: 1.500					Manhole - Access Required
E:644525.677 N:738907.817	2.400		{a} 3.3.000	Pipe	105.100	Diam/Width:150	
MH 3.9	104.500 102.779	Diameter / Length: 1.500	{1} 3.1.005	Pipe	102.779	Diam/Width:225	Manhole - Access Required
E:644598.861 N:738913.519	1.721		{a} 3.1.006	Pipe	102.779	Diam/Width:375	

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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	
MH 3.10	104.000 102.275	Diameter / Length: 1.800	{1} 3.4.005	Pipe	102.275	Diam/Width:300	Manhole - Access Required
E:644634.127 N:738900.389	1.725		{2} 3.1.006	Pipe	102.275	Diam/Width:375	
			{a} 3.1.007	Pipe	102.275	Diam/Width:450	Not Applicable
MH 3.35	104.250 102.750	Diameter / Length: 1.500					Manhole - Access Required
E:644681.531 N:738874.164	1.500						
			{a} 3.11.000	Pipe	102.750	Diam/Width:150	Not Applicable
MH 3.24	103.720 101.549	Diameter / Length: 1.500	{1} 3.1.008	Pipe	101.549	Diam/Width:450	Manhole - Access Required
E:644666.685 N:738965.273	2.171						
			{a} 3.1.009	Pipe	101.549	Diam/Width:450	Not Applicable
MH 3.32	104.500 101.965	Diameter / Length: 1.500	{1} 3.10.001	Pipe	102.371	Diam/Width:225	Manhole - Access Required
E:644734.150 N:738853.074	2.535		{2} 3.8.002	Pipe	101.965	Diam/Width:300	
			{a} 3.8.003	Pipe	101.965	Diam/Width:300	Not Applicable
MH 3.31	104.300 102.228	Diameter / Length: 1.500	{1} 3.8.001	Pipe	102.228	Diam/Width:300	Manhole - Access Required
E:644757.068 N:738831.214	2.072						
			{a} 3.8.002	Pipe	102.228	Diam/Width:300	Not Applicable

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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
MH 3.29	104.100 102.559	Diameter / Length: 1.800	{1} 3.8.000	Pipe	102.559	Diam/Width:225	Manhole - Access Required
E:644792.142 N:738806.377	1.541		{2} 3.9.000	Pipe	102.559	Diam/Width:225	
			{a} 3.8.001	Pipe	102.559	Diam/Width:300	Not Applicable
MH 3.37	103.720 101.548	Diameter / Length: 1.500	{1} 3.8.004	Pipe	101.548	Diam/Width:300	Manhole - Access Required
E:644765.416 N:738917.254	2.172		{a} 3.8.005	Pipe	101.548	Diam/Width:375	
MH 3.39	102.900 101.171	Diameter / Length: 1.800	{1} 3.8.006	Pipe	101.171	Diam/Width:450	Manhole - Access Required
E:644798.712 N:738984.904	1.729		{a} 3.8.007	Pipe	101.171	Diam/Width:525	
MH 3.26	102.900 100.789	Diameter / Length: 1.800	{1} 3.1.010	Pipe	100.789	Diam/Width:450	Manhole - Access Required
E:644701.050 N:739032.971	2.111		{a} 3.1.011	Pipe	100.789	Diam/Width:525	
MH 3.34	104.500 102.563	Diameter / Length: 1.500	{1} 3.10.000	Pipe	103.000	Diam/Width:225	Manhole - Access Required
E:644706.730 N:738861.706	1.937		{2} 3.11.000	Pipe	102.563	Diam/Width:150	
			{a} 3.10.001	Pipe	102.563	Diam/Width:225	Not Applicable

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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	
MH 3.2	108.500 106.819	Diameter / Length: 1.500	{1} 3.1.000	Pipe	106.819	Diam/Width:225	Manhole - Access Required
E:644548.083 N:738797.357	1.681		{2} 3.2.000	Pipe	106.819	Diam/Width:150	
			{a} 3.1.001	Pipe	106.819	Diam/Width:225	Not Applicable
MH 3.14	106.700 105.156	Diameter / Length: 1.500	{1} 3.5.000	Pipe	105.156	Diam/Width:150	Manhole - Access Required
E:644647.971 N:738830.642	1.544						
			{a} 3.5.001	Pipe	105.156	Diam/Width:150	Not Applicable
MH 3.12	106.500 104.866	Diameter / Length: 1.500	{1} 3.4.000	Pipe	104.866	Diam/Width:150	Manhole - Access Required
E:644608.760 N:738849.446	1.634		{2} 3.5.002	Pipe	104.866	Diam/Width:225	
			{a} 3.4.001	Pipe	104.866	Diam/Width:225	Not Applicable
MH 3.22	105.700 104.126	Diameter / Length: 1.500	{1} 3.7.000	Pipe	104.126	Diam/Width:150	Manhole - Access Required
E:644673.060 N:738855.512	1.574						
			{a} 3.7.001	Pipe	104.126	Diam/Width:150	Not Applicable
MH 3.19	105.600 103.877	Diameter / Length: 1.500	{1} 3.4.003	Pipe	103.877	Diam/Width:225	Manhole - Access Required
E:644607.409 N:738886.535	1.723						
			{a} 3.4.004	Pipe	103.877	Diam/Width:225	Not Applicable

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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
MH 3.17	105.700 104.034	Diameter / Length: 1.500	{1} 3.4.002	Pipe	104.034	Diam/Width:225	Manhole - Access Required
E:644596.775 N:738865.537	1.666		{2} 3.6.000	Pipe	104.034	Diam/Width:225	
			{a} 3.4.003	Pipe	104.034	Diam/Width:225	Not Applicable
MH 3.21	105.800 104.300	Diameter / Length: 1.500					Manhole - Access Required
E:644661.262 N:738832.182	1.500		{a} 3.7.000	Pipe	104.300	Diam/Width:150	
MH 3.1	108.500 107.002		Diameter / Length: 1.500				
E:644571.614 N:738783.235	1.498	{a} 3.1.000		Pipe	107.002	Diam/Width:225	Not Applicable
MH 3.4	108.500 106.287	Diameter / Length: 1.500		{1} 3.1.001	Pipe	106.699	Diam/Width:225
E:644554.820 N:738814.071	2.213		{a} 3.1.002	Pipe	106.287	Diam/Width:225	Not Applicable
MH 3.13	106.800 105.300		Diameter / Length: 1.500				
E:644639.062 N:738810.882	1.500	{a} 3.5.000		Pipe	105.300	Diam/Width:150	Not Applicable

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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	
MH 3.15	106.600 105.010	Diameter / Length: 1.500	{1} 3.5.001	Pipe	105.010	Diam/Width:150	Manhole - Access Required
E:644628.323 N:738840.213	1.590		{a} 3.5.002	Pipe	105.010	Diam/Width:225	
MH 3.16	106.400 104.093		Diameter / Length: 1.500	{1} 3.4.001	Pipe	104.748	Diam/Width:225
E:644592.950 N:738857.526	2.307	{a} 3.4.002		Pipe	104.093	Diam/Width:225	Not Applicable
MH 3.11	106.650 105.004	Diameter / Length: 1.500					
E:644603.256 N:738836.806	1.646		{a} 3.4.000	Pipe	105.004	Diam/Width:150	Not Applicable
MH 3.20	105.500 102.512		Diameter / Length: 1.500	{1} 3.4.004	Pipe	103.758	Diam/Width:225
E:644623.623 N:738879.189	2.988	{2} 3.7.001		Pipe	103.760	Diam/Width:150	
		{a} 3.4.005		Pipe	102.512	Diam/Width:300	Not Applicable
MH 3.18	105.800 104.300	Diameter / Length: 1.500					Manhole - Access Required
E:644631.891 N:738846.669	1.500		{a} 3.6.000	Pipe	104.300	Diam/Width:225	

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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	
MH 3.23	103.860 101.912	Diameter / Length: 1.500	{1} 3.1.007	Pipe	101.912	Diam/Width:450	Manhole - Access Required
E:644650.730 N:738932.631	1.948		{a} 3.1.008	Pipe	101.912	Diam/Width:450	
MH 3.36	104.100 101.731	Diameter / Length: 1.500	{1} 3.8.003	Pipe	101.733	Diam/Width:300	Manhole - Access Required
E:644750.108 N:738884.001	2.369		{a} 3.8.004	Pipe	101.731	Diam/Width:300	
MH 3.25	103.300 101.164	Diameter / Length: 1.500	{1} 3.1.009	Pipe	101.164	Diam/Width:450	Manhole - Access Required
E:644683.078 N:739000.119	2.136		{a} 3.1.010	Pipe	101.164	Diam/Width:450	
MH 3.38	103.080 101.355	Diameter / Length: 1.500	{1} 3.8.005	Pipe	101.355	Diam/Width:375	Manhole - Access Required
E:644783.110 N:738951.550	1.725		{a} 3.8.006	Pipe	101.355	Diam/Width:450	
MH 3.30	104.200 102.700	Diameter / Length: 1.500					Manhole - Access Required
E:644812.082 N:738799.354	1.500		{a} 3.9.000	Pipe	102.700	Diam/Width:225	

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


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
MH 3.28	104.300 102.766	Diameter / Length: 1.500					Manhole - Access Required
E:644810.581 N:738831.274	1.534		{a} 3.8.000	Pipe	102.766	Diam/Width:225	Not Applicable
MH 3.40	103.090 100.988	Diameter / Length: 1.800	{1} 3.8.007	Pipe	100.988	Diam/Width:525	Manhole - Access Required
E:644765.772 N:739001.030	2.102		{a} 3.8.008	Pipe	100.988	Diam/Width:525	Not Applicable
MH 3.33	105.000 103.500	Diameter / Length: 1.500					Manhole - Access Required
E:644692.787 N:738832.395	1.500		{a} 3.10.000	Pipe	103.500	Diam/Width:225	Not Applicable
MH 3.27	103.180 100.689	Diameter / Length: 1.800	{1} 3.1.011	Pipe	100.689	Diam/Width:525	Manhole - Access Required
E:644720.880 N:739030.660	2.491		{2} 3.8.009	Pipe	100.689	Diam/Width:525	
			{a} 3.1.012	Pipe	100.689	Diam/Width:525	Not Applicable
MH 3.42	102.750 100.625	Diameter / Length: 1.500	{1} 3.1.013	No Delay	Not Applicable	Not Applicable	Manhole - Access Required
E:644803.214 N:739010.139	2.125						
							Not Applicable

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Manhole Schedule Storm Phase: D3 Design	Company: Lally Chartered Engineers			


Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
Coordinates (m)	Depth (m)		Outgoing Connections				Cover
MH 3.3	109.000 107.154	Diameter / Length: 1.200					Manhole - Access Required
E:644498.812 N:738807.096	1.846		{a} 3.2.000	Pipe	107.154	Diam/Width:150	Not Applicable
MH 3.41	103.000 100.723	Diameter / Length: 1.800	{1} 3.8.008	Pipe	100.723	Diam/Width:525	Manhole - Access Required
E:644718.251 N:739024.483	2.277		{a} 3.8.009	Pipe	100.723	Diam/Width:525	Not Applicable

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Inflow Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			


Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
CA100	MH 3.1		Time of Concentration	0.033	100	0	100	0.033
CA101	MH 3.1		Time of Concentration	0.022	100	0	100	0.022
CA102	MH 3.1		Time of Concentration	0.007	100	0	100	0.007
CA103	MH 3.4		Time of Concentration	0.004	100	0	100	0.004
CA104	MH 3.4		Time of Concentration	0.004	100	0	100	0.004
CA105	MH 3.2		Time of Concentration	0.007	100	0	100	0.007
CA106	MH 3.4		Time of Concentration	0.023	100	0	100	0.023
CA107	MH 3.5		Time of Concentration	0.033	100	0	100	0.033
CA108	MH 3.6		Time of Concentration	0.030	100	0	100	0.030
CA109	MH 3.16		Time of Concentration	0.010	100	0	100	0.010
CA110	MH 3.16		Time of Concentration	0.018	100	0	100	0.018
CA111	MH 3.12		Time of Concentration	0.011	100	0	100	0.011
CA112	MH 3.12		Time of Concentration	0.011	100	0	100	0.011
CA113	MH 3.12		Time of Concentration	0.018	100	0	100	0.018
CA114	MH 3.12		Time of Concentration	0.013	100	0	100	0.013
CA115	MH 3.15		Time of Concentration	0.018	100	0	100	0.018
CA116	MH 3.14		Time of Concentration	0.007	100	0	100	0.007
CA117	MH 3.14		Time of Concentration	0.006	100	0	100	0.006
CA118	MH 3.13		Time of Concentration	0.006	100	0	100	0.006
CA119	MH 3.17		Time of Concentration	0.040	100	0	100	0.040
CA120	MH 3.18		Time of Concentration	0.008	100	0	100	0.008
CA121	MH 3.18		Time of Concentration	0.008	100	0	100	0.008
CA122	MH 3.18		Time of Concentration	0.012	100	0	100	0.012
CA123	MH 3.21		Time of Concentration	0.012	100	0	100	0.012
CA124	MH 3.22		Time of Concentration	0.016	100	0	100	0.016
CA125	MH 3.22		Time of Concentration	0.023	100	0	100	0.023
CA126	MH 3.18		Time of Concentration	0.028	100	0	100	0.028
CA127	MH 3.20		Time of Concentration	0.031	100	0	100	0.031
CA128	MH 3.19		Time of Concentration	0.030	100	0	100	0.030
CA129	MH 3.20		Time of Concentration	0.014	100	0	100	0.014
CA130	MH 3.7		Time of Concentration	0.028	100	0	100	0.028
CA131	MH 3.9		Time of Concentration	0.026	100	0	100	0.026
CA132	MH 3.10		Time of Concentration	0.040	100	0	100	0.040

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Inflow Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			

CA133	MH 3.35		Time of Concentration	0.024	100	0	100	0.024
CA134	MH 3.34		Time of Concentration	0.037	100	0	100	0.037
CA135	MH 3.34		Time of Concentration	0.003	100	0	100	0.003
CA136	MH 3.33		Time of Concentration	0.038	100	0	100	0.038
CA137	MH 3.33		Time of Concentration	0.013	100	0	100	0.013
CA138	MH 3.33		Time of Concentration	0.048	100	0	100	0.048
CA139	MH 3.32		Time of Concentration	0.003	100	0	100	0.003
CA140	MH 3.32		Time of Concentration	0.038	100	0	100	0.038
CA141	MH 3.31		Time of Concentration	0.031	100	0	100	0.031
CA142	MH 3.29		Time of Concentration	0.028	100	0	100	0.028
CA143	MH 3.30		Time of Concentration	0.038	100	0	100	0.038
CA144	MH 3.30		Time of Concentration	0.018	100	0	100	0.018
CA145	MH 3.28		Time of Concentration	0.009	100	0	100	0.009
CA146	MH 3.28		Time of Concentration	0.007	100	0	100	0.007
CA147	MH 3.28		Time of Concentration	0.025	100	0	100	0.025
CA148	MH 3.29		Time of Concentration	0.025	100	0	100	0.025
CA149	MH 3.8		Time of Concentration	0.023	100	0	100	0.023
CA150	MH 3.7		Time of Concentration	0.023	100	0	100	0.023
CA151	MH 3.23		Time of Concentration	0.029	100	0	100	0.029
CA152	MH 3.24		Time of Concentration	0.042	100	0	100	0.042
CA153	MH 3.24		Time of Concentration	0.028	100	0	100	0.028
CA154	MH 3.25		Time of Concentration	0.029	100	0	100	0.029
CA155	MH 3.26		Time of Concentration	0.038	100	0	100	0.038
CA156	MH 3.41		Time of Concentration	0.028	100	0	100	0.028
CA169	MH 3.39		Time of Concentration	0.053	100	0	100	0.053
CA170	MH 3.39		Time of Concentration	0.027	100	0	100	0.027
CA171	MH 3.39		Time of Concentration	0.007	100	0	100	0.007
CA172	MH 3.38		Time of Concentration	0.095	100	0	100	0.095
CA173	MH 3.39		Time of Concentration	0.028	100	0	100	0.028
CA174	MH 3.37		Time of Concentration	0.026	100	0	100	0.026
CA175	MH 3.37		Time of Concentration	0.027	100	0	100	0.027
CA176	MH 3.37		Time of Concentration	0.029	100	0	100	0.029
CA177	MH 3.37		Time of Concentration	0.025	100	0	100	0.025
CA178	MH 3.36		Time of Concentration	0.120	100	0	100	0.120
CA179	MH 3.23		Time of Concentration	0.118	100	0	100	0.118


Project: ADMIRAL		Date: 09/03/2026				
		Designed by: TG & JH	Checked by: DML	Approved By: DML		
Report Details: Type: Inflow Summary Storm Phase: D3 Design		Company: Lally Chartered Engineers				

CA180	MH 3.24		Time of Concentration	0.114	100	0	100	0.114
CA181	MH 3.37		Time of Concentration	0.121	100	0	100	0.121
CA182	MH 3.38		Time of Concentration	0.121	100	0	100	0.121
CA183	MH 3.25		Time of Concentration	0.117	100	0	100	0.117
CA184	MH 3.41		Time of Concentration	0.118	100	0	100	0.118
CA185	MH 3.40		Time of Concentration	0.120	100	0	100	0.120
CA186	MH 3.3		Time of Concentration	0.038	100	0	100	0.038
TOTAL		0.0		2.526				2.526


Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Outfall Details Storm Phase: D3 Design	Company: Lally Chartered Engineers			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
MH 3.42	Free Discharge			

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Title: Rainfall Analysis Criteria	Company: Lally Chartered Engineers			

Runoff Type	Dynamic
Output Interval (mins)	1
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			



Rainfall TG: 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
MH 3.5	Rainfall TG: 1 years: +0 %: 15 mins: Summer	107.000	105.150	105.220	0.070	17.1	0.124	0.000	17.0	7.791	OK
MH 3.6	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.000	104.467	104.541	0.074	20.0	0.131	0.000	19.7	9.139	OK
MH 3.7	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.300	103.450	103.541	0.091	27.2	0.161	0.000	26.8	12.499	OK
MH 3.8	Rainfall TG: 1 years: +0 %: 15 mins: Summer	107.500	105.100	105.129	0.029	2.5	0.052	0.000	2.4	1.059	OK
MH 3.9	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.500	102.779	102.867	0.088	29.4	0.156	0.000	29.2	13.665	OK
MH 3.10	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.000	102.275	102.416	0.141	65.7	0.360	0.000	66.4	30.862	OK
MH 3.35	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.250	102.750	102.792	0.042	2.5	0.074	0.000	2.5	1.097	OK
MH 3.24	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.720	101.549	101.722	0.173	95.0	0.306	0.000	95.8	45.919	OK
MH 3.32	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.500	101.965	102.106	0.141	39.8	0.250	0.000	39.1	17.645	OK
MH 3.31	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.300	102.228	102.314	0.086	19.0	0.152	0.000	18.7	8.344	OK
MH 3.29	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.100	102.559	102.641	0.082	16.0	0.208	0.000	15.8	6.962	OK
MH 3.37	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.720	101.548	101.746	0.198	72.6	0.350	0.000	71.7	33.522	OK
MH 3.39	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.900	101.171	101.377	0.206	101.9	0.525	0.000	103.3	48.551	OK
MH 3.26	Rainfall TG: 1 years: +0 %: 15 mins: Summer	102.900	100.789	101.060	0.271	111.5	0.689	0.000	106.8	54.108	OK
MH 3.34	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.500	102.563	102.664	0.102	17.0	0.180	0.000	17.0	7.486	OK
MH 3.2	Rainfall TG: 1 years: +0 %: 15 mins: Summer	108.500	106.819	106.899	0.080	11.2	0.142	0.000	10.8	4.902	OK
MH 3.14	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.700	105.156	105.192	0.037	2.0	0.065	0.000	1.9	0.864	OK
MH 3.12	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.500	104.866	104.939	0.073	9.2	0.129	0.000	9.1	4.148	OK
MH 3.22	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.700	104.126	104.186	0.060	5.4	0.106	0.000	4.9	2.325	OK
MH 3.19	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.600	103.877	104.005	0.128	24.5	0.226	0.000	24.2	11.134	OK

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers		



MH 3.17	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.700	104.034	104.153	0.119	21.8	0.210	0.000	21.4	9.793	OK
MH 3.21	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.800	104.300	104.329	0.029	1.2	0.051	0.000	1.2	0.537	OK
MH 3.1	Rainfall TG: 1 years: +0 %: 15 mins: Summer	108.500	107.002	107.061	0.059	6.6	0.104	0.000	6.5	2.868	OK
MH 3.4	Rainfall TG: 1 years: +0 %: 15 mins: Summer	108.500	106.287	106.350	0.063	13.9	0.111	0.000	13.7	6.275	OK
MH 3.13	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.800	105.300	105.322	0.022	0.7	0.038	0.000	0.7	0.293	OK
MH 3.15	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.600	105.010	105.055	0.045	3.8	0.079	0.000	3.7	1.694	OK
MH 3.16	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.400	104.093	104.185	0.092	12.0	0.162	0.000	11.9	5.429	OK
MH 3.11	Rainfall TG: 1 years: +0 %: 15 mins: Summer	106.650	105.004	105.004	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH 3.20	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.500	102.512	102.629	0.117	33.1	0.206	0.000	33.2	15.527	OK
MH 3.18	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.800	104.300	104.356	0.056	6.0	0.098	0.000	5.8	2.581	OK
MH 3.23	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.860	101.912	102.069	0.156	78.8	0.276	0.000	79.4	37.543	OK
MH 3.36	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.100	101.731	101.914	0.183	51.4	0.323	0.000	50.5	23.107	OK
MH 3.25	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.300	101.164	101.353	0.189	108.1	0.334	0.000	108.3	52.535	OK
MH 3.38	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.080	101.355	101.562	0.207	92.5	0.367	0.000	92.2	43.407	OK
MH 3.30	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.200	102.700	102.756	0.056	6.1	0.100	0.000	6.0	2.621	OK
MH 3.28	Rainfall TG: 1 years: +0 %: 15 mins: Summer	104.300	102.766	102.814	0.048	4.4	0.085	0.000	4.3	1.914	OK
MH 3.40	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.090	100.988	101.189	0.202	113.4	0.514	0.000	112.6	53.869	OK
MH 3.33	Rainfall TG: 1 years: +0 %: 15 mins: Summer	105.000	103.500	103.562	0.062	10.6	0.109	0.000	10.3	4.574	OK
MH 3.27	Rainfall TG: 1 years: +0 %: 960 mins: Summer	103.180	100.689	101.045	0.356	30.8	0.907	0.000	30.4	467.093	OK
MH 3.42	Rainfall TG: 1 years: +0 %: 960 mins: Summer	102.750	100.625	101.039	0.414	6.8	0.731	0.000	6.8	434.808	OK
MH 3.3	Rainfall TG: 1 years: +0 %: 15 mins: Summer	109.000	107.154	107.207	0.053	4.1	0.060	0.000	4.0	1.778	OK
MH 3.41	Rainfall TG: 1 years: +0 %: 15 mins: Summer	103.000	100.723	101.058	0.336	125.0	0.854	0.000	119.4	59.637	OK

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers		




Rainfall TG: 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
MH 3.5	Rainfall TG: 30 years: +0 %: 15 mins: Summer	107.000	105.150	105.262	0.112	39.0	0.198	0.000	38.9	17.458	OK
MH 3.6	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.000	104.467	104.585	0.118	45.7	0.208	0.000	45.4	20.487	OK
MH 3.7	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.300	103.450	103.606	0.156	62.2	0.275	0.000	61.8	28.021	OK
MH 3.8	Rainfall TG: 30 years: +0 %: 15 mins: Summer	107.500	105.100	105.144	0.044	5.5	0.078	0.000	5.3	2.360	OK
MH 3.9	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.500	102.779	102.917	0.138	67.7	0.244	0.000	67.2	30.659	OK
MH 3.10	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.000	102.275	102.500	0.225	145.4	0.572	0.000	145.5	69.486	OK
MH 3.35	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.250	102.750	102.814	0.064	5.7	0.113	0.000	5.5	2.446	OK
MH 3.24	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.720	101.549	101.842	0.293	215.1	0.518	0.000	214.8	103.268	OK
MH 3.32	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.500	101.965	102.433	0.469	85.8	0.828	0.000	81.6	39.656	Surcharged
MH 3.31	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.300	102.228	102.470	0.242	43.5	0.427	0.000	43.6	18.761	OK
MH 3.29	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.100	102.559	102.685	0.126	35.6	0.321	0.000	36.5	15.548	OK
MH 3.37	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.720	101.548	101.932	0.384	149.3	0.679	0.000	147.5	75.221	Surcharged
MH 3.39	Rainfall TG: 30 years: +0 %: 15 mins: Summer	102.900	101.171	101.570	0.399	220.2	1.015	0.000	214.5	109.135	OK
MH 3.26	Rainfall TG: 30 years: +0 %: 1440 mins: Winter	102.900	100.789	101.520	0.731	95.8	1.860	0.000	83.7	514.677	Surcharged
MH 3.34	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.500	102.563	102.737	0.175	38.1	0.308	0.000	37.8	16.726	OK
MH 3.2	Rainfall TG: 30 years: +0 %: 15 mins: Summer	108.500	106.819	106.949	0.130	25.0	0.230	0.000	24.7	10.976	OK
MH 3.14	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.700	105.156	105.212	0.056	4.4	0.099	0.000	4.4	1.943	OK
MH 3.12	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.500	104.866	104.982	0.117	20.9	0.207	0.000	20.8	9.303	OK
MH 3.22	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.700	104.126	104.226	0.101	12.0	0.178	0.000	11.2	5.219	OK
MH 3.19	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.600	103.877	104.160	0.283	50.4	0.500	0.000	49.9	25.051	Surcharged

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers		




MH 3.17	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.7 00	104.0 34	104.34 3	0.309	47.3	0.546	0.000	44.2	21.991	Surcharged
MH 3.21	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.8 00	104.3 00	104.34 4	0.044	2.8	0.077	0.000	2.7	1.200	OK
MH 3.1	Rainfall TG: 30 years: +0 %: 15 mins: Summer	108.5 00	107.0 02	107.09 2	0.090	14.7	0.159	0.000	14.6	6.383	OK
MH 3.4	Rainfall TG: 30 years: +0 %: 15 mins: Summer	108.5 00	106.2 87	106.38 6	0.099	31.5	0.175	0.000	31.4	14.060	OK
MH 3.13	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.8 00	105.3 00	105.33 2	0.032	1.5	0.057	0.000	1.5	0.658	OK
MH 3.15	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.6 00	105.0 10	105.07 7	0.068	8.5	0.120	0.000	8.5	3.808	OK
MH 3.16	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.4 00	104.0 93	104.37 1	0.278	27.2	0.491	0.000	25.5	12.188	Surcharged
MH 3.11	Rainfall TG: 30 years: +0 %: 15 mins: Summer	106.6 50	105.0 04	105.00 4	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH 3.20	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.5 00	102.5 12	102.70 3	0.191	69.8	0.337	0.000	69.9	34.911	OK
MH 3.18	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.8 00	104.3 00	104.38 4	0.084	13.3	0.149	0.000	13.0	5.741	OK
MH 3.23	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.8 60	101.9 12	102.16 8	0.256	176.2	0.453	0.000	176.7	84.503	OK
MH 3.36	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.1 00	101.7 31	102.24 4	0.513	100.1	0.907	0.000	100.7	51.976	Surcharged
MH 3.25	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.3 00	101.1 64	101.68 8	0.524	242.7	0.926	0.000	242.6	118.329	Surcharged
MH 3.38	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.0 80	101.3 55	101.70 6	0.351	196.7	0.621	0.000	194.0	97.371	OK
MH 3.30	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.2 00	102.7 00	102.78 6	0.086	13.5	0.151	0.000	13.3	5.834	OK
MH 3.28	Rainfall TG: 30 years: +0 %: 15 mins: Summer	104.3 00	102.7 66	102.83 8	0.072	9.9	0.128	0.000	9.7	4.268	OK
MH 3.40	Rainfall TG: 30 years: +0 %: 15 mins: Summer	103.0 90	100.9 88	101.51 4	0.527	241.8	1.341	0.000	218.7	121.450	Surcharged
MH 3.33	Rainfall TG: 30 years: +0 %: 15 mins: Summer	105.0 00	103.5 00	103.59 6	0.096	23.5	0.169	0.000	23.1	10.198	OK
MH 3.27	Rainfall TG: 30 years: +0 %: 1440 mins: Summer	103.1 80	100.6 89	101.74 7	1.058	1080.2	2.693	0.000	99.4	1310.523	Surcharged
MH 3.42	Rainfall TG: 30 years: +0 %: 960 mins: Winter	102.7 50	100.6 25	101.45 2	0.827	6.8	1.461	0.000	6.8	525.103	OK
MH 3.3	Rainfall TG: 30 years: +0 %: 15 mins: Summer	109.0 00	107.1 54	107.23 8	0.084	9.1	0.095	0.000	8.9	3.956	OK
MH 3.41	Rainfall TG: 30 years: +0 %: 1440 mins: Winter	103.0 00	100.7 23	101.67 6	0.954	369.0	2.428	0.000	252.8	638.421	Surcharged

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			




Rainfall TG: 100 years: Increase Rainfall (%): +20: 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
MH 3.5	Rainfall TG: 100 years: +20 %: 15 mins: Summer	107.000	105.150	105.301	0.151	60.7	0.266	0.000	60.8	27.256	OK
MH 3.6	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.000	104.467	104.640	0.173	71.4	0.306	0.000	69.2	31.942	OK
MH 3.7	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.300	103.450	103.955	0.504	95.4	0.891	0.000	92.2	43.805	Surcharged
MH 3.8	Rainfall TG: 100 years: +20 %: 15 mins: Summer	107.500	105.100	105.156	0.056	8.5	0.099	0.000	8.3	3.683	OK
MH 3.9	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.500	102.779	103.053	0.275	100.8	0.486	0.000	102.3	47.989	OK
MH 3.10	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.000	102.275	102.967	0.692	211.1	1.761	0.000	218.7	109.233	Surcharged
MH 3.35	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.250	102.750	103.543	0.793	11.4	1.402	0.000	10.2	4.002	Surcharged
MH 3.24	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.720	101.549	102.577	1.028	288.8	1.816	0.000	292.3	162.884	Surcharged
MH 3.32	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.500	101.965	103.315	1.351	100.5	2.387	0.000	108.6	62.462	Surcharged
MH 3.31	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.300	102.228	103.381	1.153	57.2	2.037	0.000	65.2	29.916	Surcharged
MH 3.29	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.100	102.559	103.437	0.878	53.3	2.234	0.000	51.4	24.650	Surcharged
MH 3.37	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.720	101.548	102.712	1.164	184.5	2.056	0.000	181.8	117.967	Surcharged
MH 3.39	Rainfall TG: 100 years: +20 %: 15 mins: Summer	102.900	101.171	102.121	0.950	287.3	2.418	0.000	284.1	171.294	Surcharged
MH 3.26	Rainfall TG: 100 years: +20 %: 960 mins: Summer	102.900	100.789	101.882	1.093	43.5	2.781	0.000	49.9	663.385	Surcharged
MH 3.34	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.500	102.563	103.486	0.923	54.2	1.632	0.000	46.1	25.843	Surcharged
MH 3.2	Rainfall TG: 100 years: +20 %: 15 mins: Summer	108.500	106.819	106.999	0.180	38.8	0.319	0.000	38.1	17.135	OK
MH 3.14	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.700	105.156	105.229	0.073	6.9	0.129	0.000	6.8	3.035	OK
MH 3.12	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.500	104.866	105.022	0.156	32.7	0.276	0.000	32.0	14.556	OK
MH 3.22	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.700	104.126	104.305	0.179	18.7	0.317	0.000	16.0	8.167	Surcharged
MH 3.19	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.600	103.877	104.417	0.540	75.1	0.954	0.000	74.9	39.221	Surcharged

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Junctions Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			


MH 3.17	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.700	104.034	104.833	0.799	67.0	1.412	0.000	66.2	34.407	Surcharged
MH 3.21	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.800	104.300	104.355	0.055	4.3	0.097	0.000	4.2	1.869	OK
MH 3.1	Rainfall TG: 100 years: +20 %: 15 mins: Summer	108.500	107.002	107.117	0.115	22.8	0.204	0.000	22.6	9.940	OK
MH 3.4	Rainfall TG: 100 years: +20 %: 15 mins: Summer	108.500	106.287	106.417	0.130	48.8	0.229	0.000	48.9	21.953	OK
MH 3.13	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.800	105.300	105.340	0.040	2.4	0.071	0.000	2.3	1.029	OK
MH 3.15	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.600	105.010	105.096	0.086	13.3	0.152	0.000	13.4	5.949	OK
MH 3.16	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.400	104.093	104.898	0.805	42.0	1.422	0.000	38.3	19.036	Surcharged
MH 3.11	Rainfall TG: 100 years: +20 %: 15 mins: Summer	106.650	105.004	105.025	0.021	0.7	0.038	0.000	0.3	0.050	OK
MH 3.20	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.500	102.512	103.202	0.690	104.2	1.220	0.000	102.5	54.684	Surcharged
MH 3.18	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.800	104.300	104.873	0.573	20.6	1.013	0.000	17.9	9.016	Surcharged
MH 3.23	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.860	101.912	102.807	0.894	246.6	1.580	0.000	251.8	133.199	Surcharged
MH 3.36	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.100	101.731	103.118	1.387	122.5	2.450	0.000	131.7	81.673	Surcharged
MH 3.25	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.300	101.164	102.218	1.054	332.4	1.862	0.000	333.4	186.742	Surcharged
MH 3.38	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.080	101.355	102.376	1.021	249.2	1.804	0.000	247.8	152.491	Surcharged
MH 3.30	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.200	102.700	103.455	0.755	20.9	1.335	0.000	19.1	9.155	Surcharged
MH 3.28	Rainfall TG: 100 years: +20 %: 15 mins: Summer	104.300	102.766	103.446	0.680	19.6	1.202	0.000	15.1	6.905	Surcharged
MH 3.40	Rainfall TG: 100 years: +20 %: 15 mins: Summer	103.090	100.988	101.964	0.977	326.1	2.485	0.000	322.8	187.848	Surcharged
MH 3.33	Rainfall TG: 100 years: +20 %: 15 mins: Summer	105.000	103.500	103.625	0.125	36.5	0.220	0.000	35.9	15.562	OK
MH 3.27	Rainfall TG: 100 years: +20 %: 1440 mins: Winter	103.180	100.689	102.282	1.593	412.6	4.054	0.000	48.1	1666.029	Surcharged
MH 3.42	Rainfall TG: 100 years: +20 %: 1440 mins: Winter	102.750	100.625	101.834	1.209	6.8	2.136	0.000	6.8	937.927	OK
MH 3.3	Rainfall TG: 100 years: +20 %: 15 mins: Summer	109.000	107.154	107.278	0.124	14.1	0.140	0.000	13.8	6.154	OK
MH 3.41	Rainfall TG: 100 years: +20 %: 960 mins: Summer	103.000	100.723	102.026	1.303	175.4	3.317	0.000	193.7	778.499	Surcharged

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Stormwater Controls Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			



Rainfall TG: 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. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	Rainfall TG: 1 years: +0 %: 960 mins: Summer	101.045	101.045	0.695	0.695	30.4	451.358	0.000	0.000	6.8	435.362	68.874	OK

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Stormwater Controls Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			



Rainfall TG: 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. Residant Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	Rainfall TG: 30 years: +0 %: 960 mins: Winter	101.465	101.465	1.115	1.115	52.5	814.181	0.000	0.000	6.8	547.181	43.854	OK

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Stormwater Controls Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers		



Rainfall TG: 100 years: Increase Rainfall (%): +20: 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
Pond	Rainfall TG: 100 years: +20 %: 1440 mins: Winter	101.853	101.853	1.503	1.503	48.1	1217.680	0.000	0.000	6.8	988.946	16.029	OK

Project: ADMIRAL	Date: 09/03/2026		
	Designed by: TG & JH	Checked by: DML	Approved By: DML
Report Details: Type: Connections Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers		




Rainfall TG: 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
3.3.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.8	MH 3.7	107.500	105.129	0.029	1.059	1.0	0.08	2.4	OK
3.1.005	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.7	MH 3.9	105.300	103.541	0.089	12.499	1.8	0.32	26.8	OK
3.1.006	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.9	MH 3.10	104.500	102.867	0.115	13.665	1.0	0.12	29.2	OK
3.8.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.29	MH 3.31	104.100	102.641	0.084	6.962	1.0	0.16	15.8	OK
3.8.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.31	MH 3.32	104.300	102.314	0.114	8.344	0.8	0.18	18.7	OK
3.1.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.1	MH 3.2	108.500	107.061	0.069	2.868	0.7	0.15	6.5	OK
3.1.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.2	MH 3.4	108.500	106.899	0.079	4.902	0.9	0.25	10.8	OK
3.1.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.4	MH 3.5	108.500	106.350	0.062	6.275	1.5	0.16	13.7	OK
3.1.003	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.5	MH 3.6	107.000	105.220	0.072	7.791	1.5	0.2	17.0	OK
3.4.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.11	MH 3.12	106.650	105.004	0.037	0.000	0.0	0	0.0	OK
3.1.007	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.10	MH 3.23	104.000	102.416	0.149	30.862	1.4	0.2	66.4	OK
3.1.008	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.23	MH 3.24	103.860	102.069	0.165	37.543	1.5	0.24	79.4	OK
3.8.003	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.32	MH 3.36	104.500	102.106	0.160	17.645	1.0	0.42	39.1	OK
3.8.004	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.36	MH 3.37	104.100	101.914	0.190	23.107	1.1	0.62	50.5	OK

Project: ADMIRAL				Date: 09/03/2026							
Designed by: TG & JH		Checked by: DML		Approved By: DML							
Report Details: Type: Connections Summary Storm Phase: D3 Design				Company: Lally Chartered Engineers							

3.1.009	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.24	MH 3.25	103.720	101.722	0.181	45.919	1.6	0.28	95.8	OK
3.1.010	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.25	MH 3.26	103.300	101.353	0.228	52.535	1.4	0.32	108.3	OK
3.8.005	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.37	MH 3.38	103.720	101.746	0.203	33.522	1.2	0.49	71.7	OK
3.8.006	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.38	MH 3.39	103.080	101.562	0.207	43.407	1.3	0.39	92.2	OK
3.8.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.28	MH 3.29	104.300	102.814	0.065	1.914	0.5	0.1	4.3	OK
3.9.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.30	MH 3.29	104.200	102.756	0.069	2.621	0.6	0.14	6.0	OK
3.10.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.33	MH 3.34	105.000	103.562	0.061	4.574	1.2	0.16	10.3	OK
3.8.007	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.39	MH 3.40	102.900	101.377	0.204	48.551	1.3	0.29	103.3	OK
3.4.003	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.17	MH 3.19	105.700	104.153	0.123	9.793	1.0	0.49	21.4	OK
3.1.004	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.6	MH 3.7	106.000	104.541	0.083	9.139	1.5	0.23	19.7	OK
3.11.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.35	MH 3.34	104.250	102.792	0.072	1.097	0.3	0.17	2.5	OK
3.10.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.34	MH 3.32	104.500	102.664	0.100	7.486	1.0	0.39	17.0	OK
3.4.004	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.19	MH 3.20	105.600	104.005	0.124	11.134	1.1	0.56	24.2	OK
3.7.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.22	MH 3.20	105.700	104.186	0.060	2.325	0.7	0.33	4.9	OK
3.4.005	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.20	MH 3.10	105.500	102.629	0.129	15.527	1.1	0.29	33.2	OK
3.5.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.13	MH 3.14	106.800	105.322	0.029	0.293	0.3	0.04	0.7	OK
3.5.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.14	MH 3.15	106.700	105.192	0.041	0.864	0.5	0.13	1.9	OK

Project: ADMIRAL	Date: 09/03/2026											
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Report Details: Type: Connections Summary Storm Phase: D3 Design				Company: Lally Chartered Engineers								


3.5.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.15	MH 3.12	106.600	105.055	0.059	1.694	0.5	0.09	3.7	OK
3.4.001	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.12	MH 3.16	106.500	104.939	0.072	4.148	0.8	0.21	9.1	OK
3.4.002	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.16	MH 3.17	106.400	104.185	0.105	5.429	0.7	0.28	11.9	OK
3.6.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.18	MH 3.17	105.800	104.356	0.087	2.581	0.4	0.13	5.8	OK
3.7.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.21	MH 3.22	105.800	104.329	0.045	0.537	0.3	0.08	1.2	OK
3.1.012	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.27	Pond	103.180	101.039	0.327	112.470	1.6	0.63	227.7	OK
3.2.000	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.3	MH 3.2	109.000	107.207	0.067	1.778	0.5	0.27	4.0	OK
3.1.011	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.26	MH 3.27	102.900	101.060	0.310	54.108	0.8	0.3	106.8	OK
3.8.008	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.40	MH 3.41	103.090	101.189	0.267	53.869	1.0	0.31	112.6	OK
3.8.009	Rainfall TG: 1 years: +0 %: 15 mins: Summer	Pipe	MH 3.41	MH 3.27	103.000	101.058	0.343	59.637	0.8	0.33	119.4	OK
3.1.013	Rainfall TG: 1 years: +0 %: 360 mins: Summer	No Delay	Pond	MH 3.42		101.027	0.103	174.619	0.0		6.9	

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Connections Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			




Rainfall TG: 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
3.3.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.8	MH 3.7	107.500	105.144	0.044	2.360	1.2	0.19	5.3	OK
3.1.005	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.7	MH 3.9	105.300	103.606	0.147	28.021	2.2	0.74	61.8	OK
3.1.006	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.9	MH 3.10	104.500	102.917	0.181	30.659	1.3	0.28	67.2	OK
3.8.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.29	MH 3.31	104.100	102.685	0.179	15.548	1.2	0.36	36.5	OK
3.8.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.31	MH 3.32	104.300	102.470	0.300	18.761	0.9	0.42	43.6	OK
3.1.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.1	MH 3.2	108.500	107.092	0.109	6.383	0.8	0.34	14.6	OK
3.1.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.2	MH 3.4	108.500	106.949	0.126	10.976	1.1	0.57	24.7	OK
3.1.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.4	MH 3.5	108.500	106.386	0.097	14.060	1.9	0.37	31.4	OK
3.1.003	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.5	MH 3.6	107.000	105.262	0.115	17.458	1.9	0.46	38.9	OK
3.4.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.11	MH 3.12	106.650	105.004	0.058	0.000	0.0	0	0.0	OK
3.1.007	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.10	MH 3.23	104.000	102.500	0.240	69.486	1.7	0.43	145.5	OK
3.1.008	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.23	MH 3.24	103.860	102.168	0.275	84.503	1.8	0.52	176.7	OK
3.8.003	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.32	MH 3.36	104.500	102.433	0.300	39.656	1.2	0.87	81.6	Surcharged
3.8.004	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.36	MH 3.37	104.100	102.244	0.300	51.976	1.4	1.25	100.7	Surcharged

Project: ADMIRAL				Date: 09/03/2026							
Designed by: TG & JH		Checked by: DML		Approved By: DML							
Report Details: Type: Connections Summary Storm Phase: D3 Design				Company: Lally Chartered Engineers							

3.1.009	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.24	MH 3.25	103.720	101.842	0.404	103.268	1.8	0.64	214.8	OK
3.1.010	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.25	MH 3.26	103.300	101.688	0.450	118.329	1.5	0.72	242.6	Surcharged
3.8.005	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.37	MH 3.38	103.720	101.932	0.368	75.221	1.3	1.01	147.5	Surcharged
3.8.006	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.38	MH 3.39	103.080	101.706	0.373	97.371	1.5	0.81	194.0	OK
3.8.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.28	MH 3.29	104.300	102.838	0.099	4.268	0.6	0.22	9.7	OK
3.9.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.30	MH 3.29	104.200	102.786	0.106	5.834	0.7	0.31	13.3	OK
3.10.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.33	MH 3.34	105.000	103.596	0.094	10.198	1.5	0.35	23.1	OK
3.8.007	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.39	MH 3.40	102.900	101.570	0.462	109.135	1.5	0.6	214.5	OK
3.4.003	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.17	MH 3.19	105.700	104.343	0.225	21.991	1.1	1.02	44.2	Surcharged
3.1.004	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.6	MH 3.7	106.000	104.585	0.137	20.487	1.8	0.54	45.4	OK
3.11.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.35	MH 3.34	104.250	102.814	0.119	2.446	0.4	0.38	5.5	OK
3.10.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.34	MH 3.32	104.500	102.737	0.169	16.726	1.2	0.87	37.8	OK
3.4.004	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.19	MH 3.20	105.600	104.160	0.225	25.051	1.3	1.15	49.9	Surcharged
3.7.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.22	MH 3.20	105.700	104.226	0.099	5.219	0.9	0.76	11.2	OK
3.4.005	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.20	MH 3.10	105.500	102.703	0.208	34.911	1.3	0.61	69.9	OK
3.5.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.13	MH 3.14	106.800	105.332	0.044	0.658	0.3	0.1	1.5	OK
3.5.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.14	MH 3.15	106.700	105.212	0.062	1.943	0.6	0.3	4.4	OK

Project: ADMIRAL	Date: 09/03/2026											
	Designed by: TG & JH	Checked by: DML	Approved By: DML									
Report Details: Type: Connections Summary Storm Phase: D3 Design				Company: Lally Chartered Engineers								


3.5.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.15	MH 3.12	106.600	105.077	0.092	3.808	0.6	0.2	8.5	OK
3.4.001	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.12	MH 3.16	106.500	104.982	0.113	9.303	1.0	0.48	20.8	OK
3.4.002	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.16	MH 3.17	106.400	104.371	0.225	12.188	0.7	0.59	25.5	Surcharged
3.6.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.18	MH 3.17	105.800	104.384	0.194	5.741	0.5	0.3	13.0	OK
3.7.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.21	MH 3.22	105.800	104.344	0.072	1.200	0.3	0.18	2.7	OK
3.1.012	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.27	Pond	103.180	101.357	0.525	248.233	2.2	1.35	484.9	Surcharged
3.2.000	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.3	MH 3.2	109.000	107.238	0.107	3.956	0.7	0.6	8.9	OK
3.1.011	Rainfall TG: 30 years: +0 %: 1440 mins: Summer	Pipe	MH 3.26	MH 3.27	102.900	101.498	0.525	469.676	1.4	0.81	292.6	Surcharged
3.8.008	Rainfall TG: 30 years: +0 %: 15 mins: Summer	Pipe	MH 3.40	MH 3.41	103.090	101.514	0.525	121.450	1.1	0.61	218.7	Surcharged
3.8.009	Rainfall TG: 30 years: +0 %: 1440 mins: Summer	Pipe	MH 3.41	MH 3.27	103.000	101.608	0.525	491.979	2.6	1.52	547.4	Surcharged
3.1.013	Rainfall TG: 30 years: +0 %: 30 mins: Summer	No Delay	Pond	MH 3.42		101.095	0.073	12.542	0.0		7.7	

Project: ADMIRAL	Date: 09/03/2026			
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Report Details: Type: Connections Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			




Rainfall TG: 100 years: Increase Rainfall (%): +20: 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
3.3.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.8	MH 3.7	107.500	105.156	0.056	3.683	1.4	0.29	8.3	OK
3.1.005	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.7	MH 3.9	105.300	103.955	0.225	43.805	2.3	1.1	92.2	Surcharged
3.1.006	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.9	MH 3.10	104.500	103.053	0.375	47.989	1.3	0.43	102.3	OK
3.8.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.29	MH 3.31	104.100	103.437	0.300	24.480	1.2	0.51	51.4	Surcharged
3.8.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.31	MH 3.32	104.300	103.381	0.300	29.881	0.9	0.63	65.2	Surcharged
3.1.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.1	MH 3.2	108.500	107.117	0.147	9.940	0.9	0.52	22.6	OK
3.1.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.2	MH 3.4	108.500	106.999	0.172	17.135	1.2	0.88	38.1	OK
3.1.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.4	MH 3.5	108.500	106.417	0.127	21.953	2.1	0.58	48.9	OK
3.1.003	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.5	MH 3.6	107.000	105.301	0.157	27.256	2.1	0.73	60.8	OK
3.4.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.11	MH 3.12	106.650	105.025	0.089	0.000	0.0	0.02	0.3	OK
3.1.007	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.10	MH 3.23	104.000	102.967	0.450	109.233	1.7	0.65	218.7	Surcharged
3.1.008	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.23	MH 3.24	103.860	102.807	0.450	133.199	1.6	0.75	251.8	Surcharged
3.8.003	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.32	MH 3.36	104.500	103.315	0.300	62.427	1.5	1.16	108.6	Surcharged
3.8.004	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.36	MH 3.37	104.100	103.118	0.300	81.673	1.9	1.63	131.7	Surcharged

Project: ADMIRAL				Date: 09/03/2026								
Designed by: TG & JH		Checked by: DML		Approved By: DML								
Report Details: Type: Connections Summary Storm Phase: D3 Design				Company: Lally Chartered Engineers								

3.1.009	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.24	MH 3.25	103.720	102.577	0.450	162.884	1.8	0.87	292.3	Surcharged
3.1.010	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.25	MH 3.26	103.300	102.218	0.450	186.742	2.1	0.99	333.4	Surcharged
3.8.005	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.37	MH 3.38	103.720	102.712	0.375	117.967	1.6	1.24	181.8	Surcharged
3.8.006	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.38	MH 3.39	103.080	102.376	0.450	152.491	1.6	1.04	247.8	Surcharged
3.8.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.28	MH 3.29	104.300	103.446	0.225	6.737	0.6	0.35	15.1	Surcharged
3.9.000	Rainfall TG: 100 years: +20 %: 15 mins: Winter	Pipe	MH 3.30	MH 3.29	104.200	103.290	0.225	9.137	0.8	0.45	19.6	Surcharged
3.10.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.33	MH 3.34	105.000	103.625	0.225	15.562	1.6	0.55	35.9	OK
3.8.007	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.39	MH 3.40	102.900	102.121	0.525	171.294	1.5	0.79	284.1	Surcharged
3.4.003	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.17	MH 3.19	105.700	104.833	0.225	34.407	1.7	1.53	66.2	Surcharged
3.1.004	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.6	MH 3.7	106.000	104.640	0.225	31.942	1.8	0.82	69.2	OK
3.11.000	Rainfall TG: 100 years: +20 %: 30 mins: Summer	Pipe	MH 3.35	MH 3.34	104.250	103.415	0.150	5.129	0.6	0.75	11.1	Surcharged
3.10.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.34	MH 3.32	104.500	103.486	0.225	25.721	1.2	1.06	46.1	Surcharged
3.4.004	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.19	MH 3.20	105.600	104.417	0.225	39.221	1.9	1.73	74.9	Surcharged
3.7.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.22	MH 3.20	105.700	104.305	0.148	8.167	1.0	1.09	16.0	Surcharged
3.4.005	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.20	MH 3.10	105.500	103.202	0.300	54.684	1.4	0.9	102.5	Surcharged
3.5.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.13	MH 3.14	106.800	105.340	0.057	1.029	0.4	0.16	2.3	OK
3.5.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.14	MH 3.15	106.700	105.229	0.079	3.035	0.7	0.47	6.8	OK

Project: ADMIRAL	Date: 09/03/2026			
	Designed by: TG & JH	Checked by: DML	Approved By: DML	
Report Details: Type: Connections Summary Storm Phase: D3 Design	Company: Lally Chartered Engineers			

3.5.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.15	MH 3.12	106.600	105.096	0.121	5.949	0.6	0.31	13.4	OK
3.4.001	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.12	MH 3.16	106.500	105.022	0.150	14.502	1.1	0.74	32.0	OK
3.4.002	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.16	MH 3.17	106.400	104.898	0.225	19.036	1.0	0.88	38.3	Surcharged
3.6.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.18	MH 3.17	105.800	104.873	0.225	9.016	0.6	0.41	17.9	Surcharged
3.7.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.21	MH 3.22	105.800	104.355	0.115	1.869	0.4	0.29	4.2	OK
3.1.012	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.27	Pond	103.180	101.594	0.525	385.656	3.3	1.98	710.9	Surcharged
3.2.000	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.3	MH 3.2	109.000	107.278	0.150	6.154	0.8	0.94	13.8	OK
3.1.011	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.26	MH 3.27	102.900	101.751	0.525	187.752	1.6	0.96	345.3	Surcharged
3.8.008	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.40	MH 3.41	103.090	101.964	0.525	187.673	1.5	0.9	322.8	Surcharged
3.8.009	Rainfall TG: 100 years: +20 %: 15 mins: Summer	Pipe	MH 3.41	MH 3.27	103.000	101.698	0.525	204.086	1.7	1.04	372.7	Surcharged
3.1.013	Rainfall TG: 100 years: +20 %: 30 mins: Summer	No Delay	Pond	MH 3.42		101.310	0.076	15.005	0.0		8.4	