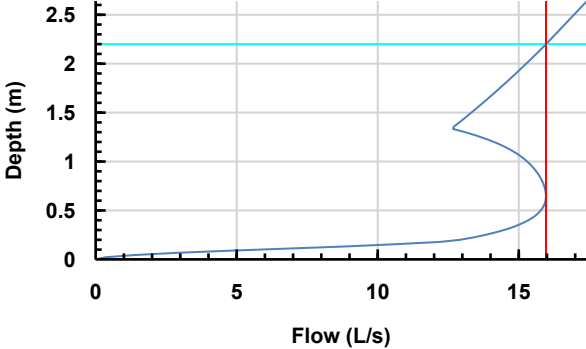


Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Junctions Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
SRWP1	Outlet	4.000	Free Discharge
EX-MHS1A (AB)	Outlet	4.001	Free Discharge
MHS6	Outlet	1.002	Free Discharge
G1	Outlet	2.000	Free Discharge
S2	Outlet	2.001	Free Discharge
J1	Outlet	2.002	Free Discharge
J2	Outlet	2.003	Free Discharge
G3	Outlet	7.000	Free Discharge
J4	Outlet	2.004	Free Discharge
G5	Outlet	8.000	Free Discharge
EX-MHS3	Outlet	2.006	Free Discharge
EX-MHSB4 (INTERCEPTOR)	Outlet	1.001	Free Discharge
G9	Outlet	3.000	Free Discharge
G11	Outlet	10.000	Free Discharge
P2-S5	Outlet	1.000	Free Discharge
G10	Outlet	11.000	Free Discharge
MHS7	Outlet	1.004	Free Discharge
Node	Outlet	1.005	Free Discharge
G14	Outlet	12.000	Free Discharge
EX MH 8	Outlet	1.006	Hydro-Brake®
	Invert Level (m)	26.391	
	Design Depth (m)	2.200	
	Design Flow (L/s)	16.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0162-1600-2200-1600	
			
G15	Outlet	13.000	Free Discharge
HEE-CH2	Outlet	14.000	Free Discharge
HEE-S1	Outlet	14.001	Free Discharge
HEE-CH1	Outlet	15.000	Free Discharge
HEE-S2	Outlet	14.002	Free Discharge
PH1-CH1	Outlet	14.003	Free Discharge
PH1-CH2	Outlet	14.004	Free Discharge
PH1-CH3	Outlet	14.005	Free Discharge
PH1-CH4	Outlet	14.006	Free Discharge
PH1-CH5	Outlet	14.007	Free Discharge
G16	Outlet	14.008	Free Discharge
S9	Outlet	14.009	Free Discharge
G17	Outlet	16.000	Free Discharge
S10	Outlet	14.010	Free Discharge
UU-C2	Outlet	1.007	Free Discharge
P2-S1	Outlet	4.002	Free Discharge
P2-S2 VENTED	Outlet	4.003	Free Discharge
P2-S3	Outlet	4.004	Free Discharge
SRWP2	Outlet	5.000	Free Discharge
P2-S4	Outlet	3.001	Free Discharge
G2	Outlet	6.000	Free Discharge
SW Stub	Outlet	Pipe	Free Discharge
EX-MHSBA	Outlet	1.000 (1)	Free Discharge

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Stormwater Controls Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			



Tank

Type : Tank

Dimensions

Exceedance Level (m)	29.454
Depth (m)	2.829
Base Level (m)	26.625
Freeboard (mm)	50
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	339.590

Depth (m)	Area (m²)	Volume (m³)
0.000	222.639	0.000
1.600	222.639	338.411

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1.002
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	1.003
Outlet Type	Free Discharge

Advanced

Perimeter	Square
Length (m)	31.833

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Connections Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Height (mm)	Upstream Cover Level (m)
4.000	10.900	Pipe	7.291		0.6	225		30.000
2.000	9.604	Pipe	40.525		0.6	150		29.010
2.001	7.579	Pipe	146.769		0.6	225		29.210
2.002	11.159	Pipe	146.769		0.6	225		29.420
7.000	3.989	Pipe	7.920		0.6	150		29.360
2.003	18.700	Pipe	146.769		0.6	225		29.456
8.000	2.985	Pipe	5.673		0.6	150		29.623
10.000	11.153	Pipe	7.681		0.6	150		29.702
11.000	10.910	Pipe	7.519		0.6	150		29.701
1.001	2.945	Pipe	147.264		0.6	200		29.770
1.004	41.615	Pipe	489.590		0.6	525		29.117
12.000	5.489	Pipe	2.510		0.6	150		29.890
1.005	28.173	Pipe	218.393		0.6	525		29.920
13.000	4.537	Pipe	1.686		0.6	150		29.890
14.000	11.956	Pipe	39.199		0.6	100		34.352
15.000	9.547	Pipe	17.913		0.6	100		35.050
14.001	6.400	Pipe	70.000		0.6	100		34.417
14.002	9.462	Pipe	57.002		0.6	100		34.400
14.003	14.548	Custom	19.739		0.6	150	185	33.820
14.004	13.121	Custom	19.439		0.6	150	185	33.083
14.005	13.154	Custom	18.792		0.6	150	185	32.408
14.006	13.106	Custom	17.021		0.6	150	185	31.708
14.007	13.301	Custom	16.858		0.6	150	185	30.938
14.008	5.966	Pipe	5.289		0.6	150		30.152
16.000	5.906	Pipe	6.900		0.6	150		29.880
14.009	16.605	Pipe	140.720		0.6	225		29.937
14.010	3.952	Pipe	2.421		0.6	225		29.975
1.006	4.759	Pipe	1.605		0.6	225		28.936
1.007	15.931	Pipe	350.000		0.6	600		29.937
1.002	2.041	Pipe	27.219		0.6	525		29.797
1.003	28.262	Pipe	307.191		0.6	525		29.454
4.001	6.829	Pipe	55.520		0.6	450		29.973
4.002	13.134	Pipe	104.240		0.6	450		29.974
4.003	12.634	Pipe	122.663		0.6	450		29.925
4.004	9.270	Pipe	331.077		0.6	450		29.789
5.000	10.414	Pipe	5.971		0.6	225		30.000
3.000	9.636	Pipe	9.783		0.6	225		29.725
3.001	9.388	Pipe	19.158		0.6	450		29.925
2.006	11.167	Pipe	223.347		0.6	225		29.730
2.004	20.976	Pipe	146.769		0.6	225		29.697
6.000	4.167	Pipe	11.465		0.6	150		29.183
Pipe	13.299	Pipe	7.950		0.6	150		29.751
1.000	2.838	Pipe	40.541		0.6	200		29.866
1.000 (1)	2.471	Pipe	3.481		0.6	200		29.790

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Connections Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



Name	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
4.000	28.575	29.973	27.080	None	
2.000	28.260	29.210	28.023	None	
2.001	27.948	29.420	27.896	None	
2.002	27.896	29.456	27.820	None	
7.000	28.610	29.456	28.106	None	
2.003	27.820	29.697	27.693	None	
8.000	28.873	29.697	28.347	None	
10.000	28.952	29.866	27.500	None	
11.000	28.951	29.866	27.500	None	
1.001	26.720	29.797	26.700	None	
1.004	26.533	29.920	26.448	None	
12.000	29.010	29.920	26.823	None	
1.005	26.448	28.936	26.319	None	
13.000	29.010	28.936	26.319	None	
14.000	34.117	34.417	33.812	None	
15.000	34.350	34.417	33.817	None	
14.001	33.817	34.400	33.726	None	
14.002	33.726	33.820	33.560	None	
14.003	33.540	33.083	32.803	None	
14.004	32.803	32.408	32.128	None	
14.005	32.128	31.708	31.428	None	
14.006	31.428	30.938	30.658	None	
14.007	30.658	30.152	29.869	None	
14.008	29.272	29.937	28.144	None	
16.000	29.000	29.937	28.144	None	
14.009	28.069	29.975	27.951	None	
14.010	27.951	28.936	26.319	None	
1.006	26.319	29.937	23.353	None	17.1
1.007	23.353	29.600	23.307	None	
1.002	26.700	29.454	26.625	None	
1.003	26.625	29.117	26.533	None	
4.001	27.080	29.974	26.957	None	
4.002	26.957	29.925	26.831	None	
4.003	26.831	29.789	26.728	None	
4.004	26.728	29.797	26.700	None	
5.000	28.575	29.925	26.831	None	
3.000	28.975	29.925	27.990	None	
3.001	27.990	29.866	27.500	None	
2.006	27.550	29.866	27.500	None	
2.004	27.693	29.730	27.550	None	
6.000	28.433	29.420	28.070	None	
Pipe	28.401	29.789	26.728	None	
1.000	27.500	29.790	27.430	None	
1.000 (1)	27.430	29.770	26.720	None	

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM		
Report Details: Type: Network Design Criteria Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

Flow Options

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

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	3.00
Min. Backdrop (m)	0.750
Max. Backdrop (m)	1.500
Use Flow Restriction	☒
Reduce Channel Depths	☒

Pipe Size Library

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

Manhole Options

Apply Offset	☐
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Manhole Size Library

Benching Requirements

Landing Width (mm)	0
Benching Width (mm)	0

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Outfall Details Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

Outfalls

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

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Title: Rainfall Analysis Criteria	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

Runoff Type	Dynamic
Output Interval (mins)	2
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall	
Sim Criteria FSR	Type: FSR
Region	England And Wales
M5-60 (mm)	18.1
Ratio R	0.360
Summer	☒
Winter	☒

Return Period	
Return Period (years)	Increase Rainfall (%)
1.0	0.000
30.0	45.000
100.0	45.000
Storm Durations	

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		





Sim Criteria FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
RWP - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.48	61.9	27.032
G1 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.5	1.078
G6 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.03	3.6	1.587
G9 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.04	4.9	2.152
S7(DUMMY FC) - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.6	0.679
G14 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.6	1.133
G15 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.4	0.623
HEE-CH2 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.8	0.793
HEE-CH1 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.114
HEE-S1 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer	0.00	0.1	0.050
PH1-CH1 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.4	0.168
PH1-CH2 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.4	0.168
PH1-CH3 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.114
PH1-CH4 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.114
PH1-CH5 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.114
G16 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.114

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM

G17 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.2	0.511
G11 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.7	0.738
SRWP2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.18	23.0	10.029
G10 - TOC	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.7	1.191
G6 - TOC (1)	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.03	3.2	1.416
G1 - TOC (1)	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.2	0.511

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		





Sim Criteria FSR: 30 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
RWP - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.48	219.6	95.887
G1 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.02	8.7	3.818
G6 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.03	12.9	5.629
G9 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.04	17.5	7.639
S7(DUMMY FC) - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	5.5	2.412
G14 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.02	9.2	4.022
G15 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	5.1	2.212
HEE-CH2 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	6.4	2.815
HEE-CH1 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.404
HEE-S1 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.5	0.199
PH1-CH1 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.4	0.602
PH1-CH2 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	1.4	0.602
PH1-CH3 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.404
PH1-CH4 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.404
PH1-CH5 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.404
G16 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.00	0.9	0.404

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



G17 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	4.1	1.810
G11 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	6.0	2.614
SRWP2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.18	81.5	35.582
G10 - TOC	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.02	9.7	4.222
G6 - TOC (1)	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.03	11.5	5.026
G1 - TOC (1)	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	0.01	4.1	1.810

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
RWP - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.48	283.6	123.844
G1 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.02	11.3	4.933
G6 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.03	16.7	7.272
G9 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.04	22.6	9.864
S7(DUMMY FC) - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	7.1	3.116
G14 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.02	11.9	5.191
G15 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	6.5	2.856
HEE-CH2 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	8.3	3.635
HEE-CH1 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.519
HEE-S1 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	0.6	0.259
PH1-CH1 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.8	0.779
PH1-CH2 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.8	0.779
PH1-CH3 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.519
PH1-CH4 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.519
PH1-CH5 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.519
G16 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.00	1.2	0.519

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Inflows Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



G17 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	5.3	2.336
G11 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	7.7	3.374
SRWP2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.18	105.2	45.955
G10 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.02	12.5	5.451
G6 - TOC (1)	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.03	14.9	6.490
G1 - TOC (1)	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.01	5.3	2.336

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			



Sim 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
SRWP1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter		28.575	28.624	0.049	61.9			61.8	27.034	OK
EX-MHS1A (AB)	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.973	27.080	27.219	0.139	61.8	0.355	0.000	61.0	27.028	OK
MHS6	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.797	26.700	26.847	0.147	98.5	0.373	0.000	97.5	45.524	OK
G1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.010	28.260	28.291	0.031	2.5	0.005	0.000	2.4	1.077	OK
S2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.210	27.948	27.986	0.038	2.4	0.042	0.000	2.4	1.075	OK
J1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter		27.896	27.939	0.043	3.6			3.5	1.583	OK
J2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter		27.820	27.880	0.060	6.7			6.6	2.995	OK
G3	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.360	28.610	28.634	0.024	3.2	0.004	0.000	3.2	1.415	OK
J4	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter		27.693	27.767	0.074	10.2			10.0	4.582	OK
G5	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.623	28.873	28.897	0.024	3.6	0.004	0.000	3.6	1.586	OK
EX-MHS3	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.730	27.550	27.638	0.088	10.0	0.099	0.000	9.7	4.567	OK
EX-MHSB4 (INTERCEPTOR)	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.770	26.720	26.869	0.149	18.4	0.095	0.000	18.2	8.612	OK
G9	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.725	28.975	29.002	0.027	4.9	0.008	0.000	4.9	2.151	OK
G11	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer	29.702	28.952	28.968	0.016	1.7	0.002	0.000	1.7	0.657	OK
P2-S5	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.866	27.500	27.587	0.087	18.9	0.154	0.000	18.5	8.628	OK
G10	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer	29.701	28.951	28.971	0.020	2.7	0.003	0.000	2.7	1.062	OK
MHS7	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	29.117	26.533	26.812	0.279	35.2	0.965	0.000	25.4	71.047	OK
Node	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	29.920	26.448	26.810	0.362	26.7	0.103	0.000	16.7	72.675	OK
G14	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.890	29.010	29.026	0.016	2.6	0.003	0.000	2.6	1.132	OK
EX MH 8	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	28.936	26.319	26.810	0.491	20.0	1.702	0.000	15.3	76.144	Surcharged
G15	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.890	29.010	29.019	0.009	1.4	0.001	0.000	1.4	0.622	OK

Manchester College: Phase 2 Drainage				Date: 18/01/2024							
				Designed by: NM		Checked by: GT					
Report Details: Type: Junctions Summary Storm Phase: Storm				Company Address: AECOM 100 Embankment, Cathedral Approach Salford							

HEE-CH2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	34.352	34.117	34.146	0.029	1.8	0.002	0.000	1.8	0.792	Flood Risk
HEE-S1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	34.417	33.812	33.856	0.044	2.2	0.007	0.000	2.1	0.953	OK
HEE-CH1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	35.050	34.350	34.359	0.009	0.3	0.001	0.000	0.3	0.113	OK
HEE-S2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	34.400	33.726	33.762	0.036	2.1	0.006	0.000	2.1	0.951	OK
PH1-CH1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	33.820	33.540	33.567	0.027	2.5	0.000	0.000	2.5	1.118	Flood Risk
PH1-CH2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	33.083	32.803	32.832	0.029	2.9	0.001	0.000	2.8	1.285	Flood Risk
PH1-CH3	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	32.408	32.128	32.158	0.030	3.1	0.001	0.000	3.1	1.398	Flood Risk
PH1-CH4	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	31.708	31.428	31.458	0.030	3.3	0.001	0.000	3.3	1.511	Flood Risk
PH1-CH5	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	30.938	30.658	30.690	0.032	3.5	0.001	0.000	3.5	1.624	Flood Risk
G16	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	30.152	29.272	29.295	0.023	3.8	0.002	0.000	3.7	1.736	OK
S9	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.937	28.069	28.124	0.055	4.9	0.048	0.000	4.8	2.239	OK
G17	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.880	29.000	29.014	0.014	1.2	0.001	0.000	1.2	0.511	OK
S10	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.975	27.951	27.967	0.016	4.8	0.014	0.000	4.8	2.236	OK
UU-C2	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	29.937	23.353	23.440	0.087	15.3	0.153	0.000	15.3	75.965	OK
UU Outfall	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	29.600	23.307	23.390	0.083	15.3	0.000	0.000	15.3	75.965	OK
P2-S1	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.974	26.957	27.114	0.157	61.0	0.277	0.000	60.2	27.025	OK
P2-S2 VENTED	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.925	26.831	27.023	0.192	83.2	0.340	0.000	81.5	37.047	OK
P2-S3	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.789	26.728	26.927	0.199	81.5	0.351	0.000	80.3	37.025	OK
SRWP2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter		28.575	28.602	0.027	23.0			22.9	10.034	OK
P2-S4	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.925	27.990	28.015	0.025	4.9	0.035	0.000	4.9	2.153	OK
G2	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.183	28.433	28.449	0.016	1.2	0.003	0.000	1.2	0.510	OK
SW Stub	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer		28.401	28.401	0.000	0.0			0.0	0.000	OK
EX-MHSBA	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	29.790	27.430	27.471	0.041	18.5	0.026	0.000	18.4	8.625	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim Criteria FSR: 30 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
SRWP1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter		28.575	28.670	0.095	219.6			219.5	95.890	OK
EX-MHS1A (AB)	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.973	27.080	27.739	0.659	69.7	1.676	0.000	69.6	198.166	Surcharged
MHS6	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.797	26.700	27.739	1.039	108.4	2.643	0.000	106.9	324.131	Surcharged
G1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.010	28.260	28.321	0.061	8.7	0.010	0.000	8.7	3.817	OK
S2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.210	27.948	28.024	0.076	8.7	0.086	0.000	8.6	3.815	OK
J1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter		27.896	27.980	0.084	12.7			12.6	5.621	OK
J2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter		27.820	27.940	0.120	24.0			23.8	10.642	OK
G3	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.360	28.610	28.658	0.048	11.5	0.008	0.000	11.5	5.025	OK
J4	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter		27.693	27.854	0.161	36.6			35.7	16.269	OK
G5	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.623	28.873	28.921	0.048	12.9	0.008	0.000	12.9	5.628	OK
EX-MHS3	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.730	27.550	27.779	0.229	35.7	0.259	0.000	33.9	16.254	Surcharged
EX-MHSB4 (INTERCEPTOR)	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.770	26.720	27.739	1.019	22.2	0.648	0.000	21.7	63.348	Surcharged
G9	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.725	28.975	29.027	0.052	17.5	0.015	0.000	17.5	7.638	OK
G11	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.702	28.952	28.981	0.029	6.0	0.005	0.000	6.0	2.613	OK
P2-S5	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.866	27.500	27.739	0.239	22.3	0.423	0.000	22.2	64.030	Surcharged
G10	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	29.701	28.951	28.988	0.037	9.7	0.006	0.000	9.6	3.767	OK
MHS7	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.117	26.533	27.738	1.205	25.1	4.175	0.000	19.6	174.501	Surcharged
Node	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.920	26.448	27.738	1.290	20.6	0.365	0.000	15.4	174.391	Surcharged
G14	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	29.890	29.010	29.040	0.030	9.2	0.005	0.000	9.2	3.587	OK
EX MH 8	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	28.936	26.319	27.738	1.419	18.0	4.914	0.000	16.0	188.673	Surcharged
G15	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.890	29.010	29.027	0.017	5.1	0.003	0.000	5.1	2.211	OK

Manchester College: Phase 2 Drainage		Date: 18/01/2024					
		Designed by: NM	Checked by: GT	Approved By: VB			
Report Details: Type: Junctions Summary Storm Phase: Storm		Company Address: AECOM 100 Embankment, Cathedral Approach Salford					

HEE-CH2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	34.352	34.117	34.176	0.059	6.4	0.004	0.000	6.4	2.814	Flood Risk
HEE-S1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	34.417	33.812	33.924	0.112	7.8	0.018	0.000	7.3	3.408	Surcharged
HEE-CH1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	35.050	34.350	34.366	0.016	0.9	0.001	0.000	0.9	0.404	OK
HEE-S2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	34.400	33.726	33.806	0.081	7.3	0.013	0.000	7.2	3.406	OK
PH1-CH1	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	33.820	33.540	33.593	0.053	8.6	0.001	0.000	8.5	4.007	Flood Risk
PH1-CH2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	33.083	32.803	32.860	0.057	9.9	0.001	0.000	9.9	4.110	Flood Risk
PH1-CH3	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	32.408	32.128	32.188	0.060	10.8	0.001	0.000	10.8	5.012	Flood Risk
PH1-CH4	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	31.708	31.428	31.488	0.060	11.7	0.001	0.000	11.7	5.415	Flood Risk
PH1-CH5	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	30.938	30.658	30.721	0.063	12.6	0.001	0.000	12.5	5.818	Flood Risk
G16	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	30.152	29.272	29.317	0.045	13.4	0.003	0.000	13.4	6.220	OK
S9	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.937	28.069	28.174	0.105	17.5	0.091	0.000	17.4	8.022	OK
G17	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	29.880	29.000	29.025	0.025	4.1	0.002	0.000	4.1	1.613	OK
S10	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.975	27.951	27.983	0.032	17.4	0.027	0.000	17.3	8.013	OK
UU-C2	Sim Criteria FSR: 30 years: +45 %: 960 mins: Summer	29.937	23.353	23.442	0.089	16.0	0.156	0.000	16.0	566.093	OK
UU Outfall	Sim Criteria FSR: 30 years: +45 %: 960 mins: Summer	29.600	23.307	23.392	0.085	16.0	0.000	0.000	16.0	566.093	OK
P2-S1	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.974	26.957	27.739	0.782	69.6	1.381	0.000	66.5	196.242	Surcharged
P2-S2 VENTED	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.925	26.831	27.739	0.908	92.4	1.604	0.000	88.5	266.466	Surcharged
P2-S3	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.789	26.728	27.739	1.011	88.5	1.786	0.000	86.8	263.387	Surcharged
SRWP2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter		28.575	28.627	0.052	81.5			81.4	35.554	OK
P2-S4	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	29.925	27.990	28.034	0.044	17.4	0.063	0.000	17.3	6.825	OK
G2	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	29.183	28.433	28.463	0.030	4.1	0.005	0.000	4.1	1.809	OK
SW Stub	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer		28.401	28.401	0.000	0.0			0.0	0.000	OK
EX-MHSBA	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	29.790	27.430	27.739	0.309	22.2	0.197	0.000	22.2	64.031	Surcharged

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
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Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim 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
SRWP1	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter		28.575	28.686	0.111	283.6			283.5	123.771	OK
EX-MHS1A (AB)	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.973	27.080	28.273	1.193	55.5	3.037	0.000	53.9	313.843	Surcharged
MHS6	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.797	26.700	28.272	1.572	88.9	4.002	0.000	88.0	518.905	Surcharged
G1	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.010	28.260	28.331	0.071	11.3	0.011	0.000	11.2	4.923	OK
S2	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.210	27.948	28.274	0.326	2.2	0.368	0.000	2.2	12.599	Surcharged
J1	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter		27.896	28.274	0.378	3.3			3.3	18.561	Surcharged
J2	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter		27.820	28.274	0.454	6.2			6.2	35.134	Surcharged
G3	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.360	28.610	28.666	0.055	14.9	0.009	0.000	14.8	6.489	OK
J4	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter		27.693	28.273	0.581	9.4			9.4	53.667	Surcharged
G5	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.623	28.873	28.929	0.055	16.7	0.009	0.000	16.6	7.271	OK
EX-MHS3	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.730	27.550	28.274	0.724	9.4	0.818	0.000	9.4	53.644	Surcharged
EX-MHSB4 (INTERCEPTOR)	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.770	26.720	28.273	1.553	17.6	0.988	0.000	17.2	100.528	Surcharged
G9	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.725	28.975	29.035	0.060	22.6	0.017	0.000	22.5	9.864	OK
G11	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.702	28.952	28.986	0.034	7.7	0.005	0.000	7.7	3.373	OK
P2-S5	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.866	27.500	28.273	0.773	17.8	1.367	0.000	17.7	101.333	Surcharged
G10	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.701	28.951	28.994	0.043	12.5	0.007	0.000	12.5	5.450	OK
MHS7	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.117	26.533	28.272	1.739	17.9	6.024	0.000	15.3	350.413	Surcharged
Node	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.920	26.448	28.271	1.823	15.8	0.516	0.000	15.1	355.055	Surcharged
G14	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	29.890	29.010	29.042	0.032	11.9	0.005	0.000	11.8	4.634	OK
EX MH 8	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	28.936	26.319	28.271	1.952	17.1	6.762	0.000	16.0	381.427	Surcharged
G15	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.890	29.010	29.030	0.020	6.5	0.003	0.000	6.5	2.855	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

HEE-CH2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	34.352	34.117	34.202	0.085	8.3	0.006	0.000	7.5	3.633	Flood Risk
HEE-S1	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	34.417	33.812	34.012	0.200	9.3	0.032	0.000	8.7	4.401	Surcharged
HEE-CH1	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	35.050	34.350	34.369	0.019	1.2	0.001	0.000	1.2	0.518	OK
HEE-S2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	34.400	33.726	33.866	0.141	8.7	0.022	0.000	8.5	4.399	Surcharged
PH1-CH1	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	33.820	33.540	33.597	0.057	10.0	0.001	0.000	9.9	5.177	Flood Risk
PH1-CH2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	33.083	32.803	32.865	0.062	11.7	0.001	0.000	11.6	5.955	Flood Risk
PH1-CH3	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	32.408	32.128	32.193	0.065	12.8	0.001	0.000	12.8	5.775	Flood Risk
PH1-CH4	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	31.708	31.428	31.494	0.066	14.0	0.001	0.000	13.9	6.236	Flood Risk
PH1-CH5	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	30.938	30.658	30.728	0.070	15.1	0.001	0.000	15.1	7.506	Flood Risk
G16	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	30.152	29.272	29.322	0.050	16.3	0.004	0.000	16.2	8.022	OK
S9	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.937	28.069	28.271	0.202	4.6	0.175	0.000	4.6	26.477	OK
G17	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.880	29.000	29.028	0.028	5.3	0.002	0.000	5.3	2.335	OK
S10	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.975	27.951	28.271	0.320	4.6	0.277	0.000	4.6	26.473	Surcharged
UU-C2	Sim Criteria FSR: 100 years: +45 %: 960 mins: Summer	29.937	23.353	23.442	0.089	16.0	0.156	0.000	16.0	724.713	OK
UU Outfall	Sim Criteria FSR: 100 years: +45 %: 1440 mins: Winter	29.600	23.307	23.392	0.085	16.0	0.000	0.000	16.0	888.567	OK
P2-S1	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.974	26.957	28.273	1.316	53.9	2.326	0.000	53.1	311.511	Surcharged
P2-S2 VENTED	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.925	26.831	28.273	1.442	73.5	2.548	0.000	72.7	424.584	Surcharged
P2-S3	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.789	26.728	28.273	1.545	72.7	2.729	0.000	72.0	421.293	Surcharged
SRWP2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter		28.575	28.634	0.059	105.2			105.2	45.899	OK
P2-S4	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.925	27.990	28.273	0.283	4.4	0.406	0.000	4.4	25.175	OK
G2	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	29.183	28.433	28.468	0.034	5.3	0.005	0.000	5.3	2.335	OK
SW Stub	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer		28.401	28.401	0.000	0.0			0.0	0.000	OK
EX-MHSBA	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	29.790	27.430	28.273	0.843	17.7	0.536	0.000	17.6	101.329	Surcharged

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim 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)	Half Drain Down Time (mins)	Percentage Available (%)
Tank	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	26.814	26.814	0.189	0.189	52.0	39.943	0.000	0.000	34.4	70.280	14	88.238

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



Status
OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim Criteria FSR: 30 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Tank	Sim Criteria FSR: 30 years: +45 %: 120 mins: Winter	27.739	27.739	1.114	1.114	106.9	235.523	0.000	0.000	24.6	180.152	124	30.645

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



Status

OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim 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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Tank	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	28.272	28.272	1.647	1.647	88.0	338.531	0.000	0.000	17.1	353.532	219	0.312

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

Status

OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		





Sim 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
4.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SRWP1	EX-MHS1A (AB)	30.000	28.624	0.094	27.034	1.3	0.11	61.8	OK
2.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G1	S2	29.010	28.291	0.030	1.077	1.0	0.09	2.4	OK
2.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S2	J1	29.210	27.986	0.040	1.075	0.5	0.06	2.4	OK
2.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	J1	J2	29.420	27.939	0.052	1.583	0.5	0.08	3.5	OK
7.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G3	J2	29.360	28.634	0.023	1.415	1.8	0.05	3.2	OK
2.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	J2	J4	29.456	27.880	0.067	2.995	0.7	0.15	6.6	OK
8.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G5	J4	29.623	28.897	0.023	1.586	2.1	0.05	3.6	OK
10.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G11	P2-S5	29.702	28.968	0.051	0.738	0.7	0.03	1.7	OK
11.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G10	P2-S5	29.701	28.971	0.054	1.190	0.9	0.04	2.7	OK
1.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	EX-MHSB4 (INTERCEPTOR)	MHS6	29.770	26.869	0.148	8.612	0.7	0.58	18.2	OK
1.004	Sim Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	MHS7	Node	29.117	26.770	0.278	39.016	0.6	0.14	31.2	OK
12.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G14	Node	29.890	29.026	0.016	1.132	2.6	0.02	2.6	OK
1.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Node	EX MH 8	29.920	26.737	0.353	17.378	0.2	0.06	19.1	OK
13.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G15	EX MH 8	29.890	29.019	0.150	0.622	0.9	0.01	1.4	OK
14.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	HEE-CH2	HEE-S1	34.352	34.146	0.037	0.792	0.7	0.19	1.8	Flood Risk
15.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	HEE-CH1	HEE-S1	35.050	34.359	0.024	0.113	0.2	0.02	0.3	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

14.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	HEE-S1	HEE-S2	34.417	33.856	0.038	0.953	0.8	0.3	2.1	OK
14.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	HEE-S2	PH1-CH1	34.400	33.762	0.035	0.951	0.8	0.26	2.1	OK
14.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Custom	PH1-CH1	PH1-CH2	33.820	33.567	0.028	1.118	1.2	0.04	2.5	Flood Risk
14.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Custom	PH1-CH2	PH1-CH3	33.083	32.832	0.030	1.285	1.3	0.05	2.8	Flood Risk
14.005	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Custom	PH1-CH3	PH1-CH4	32.408	32.158	0.030	1.398	1.4	0.05	3.1	Flood Risk
14.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Custom	PH1-CH4	PH1-CH5	31.708	31.458	0.031	1.511	1.4	0.05	3.3	Flood Risk
14.007	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Custom	PH1-CH5	G16	30.938	30.690	0.031	1.624	1.5	0.06	3.5	Flood Risk
14.008	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G16	S9	30.152	29.295	0.023	1.736	2.2	0.05	3.7	OK
16.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G17	S9	29.880	29.014	0.014	0.511	1.4	0.02	1.2	OK
14.009	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S9	S10	29.937	28.124	0.036	2.239	1.2	0.11	4.8	OK
14.010	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S10	EX MH 8	29.975	27.967	0.225	2.236	0.5	0.01	4.8	OK
1.006	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	Pipe	EX MH 8	UU-C2	28.936	26.810	0.057	76.127	1.9	0.04	15.3	Surcharged
1.007	Sim Criteria FSR: 1 years: +0 %: 60 mins: Winter	Pipe	UU-C2	UU Outfall	29.937	23.440	0.085	75.965	0.6	0.04	15.3	OK
1.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MHS6	Tank	29.797	26.847	0.134	45.524	3.4	0.1	97.5	OK
1.003	Sim Criteria FSR: 1 years: +0 %: 30 mins: Summer	Pipe	Tank	MHS7	29.454	26.773	0.192	40.184	0.8	0.15	40.9	OK
4.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	EX-MHS1A (AB)	P2-S1	29.973	27.219	0.148	27.028	1.3	0.14	61.0	OK
4.002	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	P2-S1	P2-S2 VENTED	29.974	27.114	0.175	27.025	1.1	0.19	60.2	OK
4.003	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	P2-S2 VENTED	P2-S3	29.925	27.023	0.196	37.047	1.2	0.28	81.5	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

4.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	P2-S3	MHS6	29.789	26.927	0.173	37.025	1.4	0.45	80.3	OK
5.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	SRWP2	P2-S2 VENTED	30.000	28.602	0.110	10.034	0.5	0.04	22.9	OK
3.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G9	P2-S4	29.725	29.002	0.026	2.151	1.9	0.03	4.9	OK
3.001	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	P2-S4	P2-S5	29.925	28.015	0.056	2.153	0.5	0.01	4.9	OK
2.006	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	EX- MHS3	P2-S5	29.730	27.638	0.087	4.567	0.7	0.28	9.7	OK
2.004	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	J4	EX-MHS3	29.697	27.767	0.081	4.582	0.8	0.23	10.0	OK
6.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	G2	J1	29.183	28.449	0.016	0.510	1.2	0.02	1.2	OK
Pipe	Sim Criteria FSR: 1 years: +0 %: 15 mins: Summer	Pipe	SW Stub	P2-S3	29.751	28.401	0.099	0.000	0.0	0	0.0	OK
1.000	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	P2-S5	EX- MHSBA	29.866	27.587	0.064	8.628	2.1	0.31	18.5	OK
1.000 (1)	Sim Criteria FSR: 1 years: +0 %: 15 mins: Winter	Pipe	EX- MHSBA	EX- MHSB4 (INTERC EPTOR)	29.790	27.471	0.095	8.625	1.2	0.09	18.4	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

AECOM



Sim Criteria FSR: 30 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
4.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SRWP1	EX-MHS1A (AB)	30.000	28.670	0.225	95.890	1.8	0.38	219.5	OK
2.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G1	S2	29.010	28.321	0.059	3.817	1.3	0.31	8.7	OK
2.001	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	S2	J1	29.210	28.024	0.080	3.815	0.7	0.2	8.6	OK
2.002	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	J1	J2	29.420	27.980	0.102	5.621	0.7	0.29	12.6	OK
7.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G3	J2	29.360	28.658	0.045	5.025	2.5	0.18	11.5	OK
2.003	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	J2	J4	29.456	27.940	0.141	10.642	0.9	0.55	23.8	OK
8.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G5	J4	29.623	28.921	0.045	5.628	2.9	0.17	12.9	OK
10.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G11	P2-S5	29.702	28.981	0.122	2.613	0.5	0.09	6.0	OK
11.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G10	P2-S5	29.701	28.988	0.126	4.221	0.7	0.15	9.6	OK
1.001	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	EX-MHSB4 (INTERCEPTOR)	MHS6	29.770	27.268	0.200	30.145	2.0	2.02	63.3	Surcharged
1.004	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	MHS7	Node	29.117	27.246	0.525	22.259	0.6	0.3	64.3	Surcharged
12.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G14	Node	29.890	29.039	0.150	4.020	3.6	0.09	9.7	OK
1.005	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	Pipe	Node	EX MH 8	29.920	27.199	0.525	18.419	0.3	0.08	26.0	Surcharged
13.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G15	EX MH 8	29.890	29.027	0.150	2.211	1.9	0.04	5.1	OK
14.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	HEE-CH2	HEE-S1	34.352	34.176	0.086	2.814	0.9	0.66	6.4	Flood Risk
15.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	HEE-CH1	HEE-S1	35.050	34.366	0.062	0.404	0.2	0.06	0.9	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT		Approved By: VB
Report Details: Type: Connections Summary Storm Phase: Storm		Company Address: AECOM 100 Embankment, Cathedral Approach Salford		

14.001	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	HEE-S1	HEE-S2	34.417	33.924	0.094	3.408	1.0	1.01	7.3	Surchar ged
14.002	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	HEE-S2	PH1-CH1	34.400	33.806	0.077	3.406	1.1	0.89	7.2	OK
14.003	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Custom	PH1-CH1	PH1-CH2	33.820	33.593	0.055	4.007	1.6	0.15	8.5	Flood Risk
14.004	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Custom	PH1-CH2	PH1-CH3	33.083	32.860	0.059	4.609	1.7	0.17	9.9	Flood Risk
14.005	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Custom	PH1-CH3	PH1-CH4	32.408	32.188	0.060	5.012	1.8	0.18	10.8	Flood Risk
14.006	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Custom	PH1-CH4	PH1-CH5	31.708	31.488	0.062	5.415	1.9	0.18	11.7	Flood Risk
14.007	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Custom	PH1-CH5	G16	30.938	30.721	0.062	5.818	2.0	0.2	12.5	Flood Risk
14.008	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G16	S9	30.152	29.317	0.043	6.220	3.2	0.17	13.4	OK
16.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G17	S9	29.880	29.025	0.028	1.809	2.0	0.06	4.1	OK
14.009	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	S9	S10	29.937	28.174	0.068	8.022	1.7	0.4	17.4	OK
14.010	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	S10	EX MH 8	29.975	27.983	0.225	8.013	0.6	0.05	17.3	OK
1.006	Sim Criteria FSR: 30 years: +45 %: 960 mins: Summer	Pipe	EX MH 8	UU-C2	28.936	27.179	0.058	566.096	2.0	0.04	16.0	Surchar ged
1.007	Sim Criteria FSR: 30 years: +45 %: 960 mins: Summer	Pipe	UU-C2	UU Outfall	29.937	23.442	0.087	566.093	0.6	0.04	16.0	OK
1.002	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	MHS6	Tank	29.797	27.239	0.525	151.141	4.0	0.36	340.0	Surchar ged
1.003	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	Tank	MHS7	29.454	27.239	0.525	29.969	0.9	0.41	112.9	Surchar ged
4.001	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	EX- MHS1A (AB)	P2-S1	29.973	27.581	0.450	95.134	1.5	0.49	213.0	Surchar ged
4.002	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	P2-S1	P2-S2 VENTED	29.974	27.507	0.450	93.814	1.3	0.66	208.1	Surchar ged
4.003	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	P2-S2 VENTED	P2-S3	29.925	27.413	0.450	126.039	1.8	0.98	284.8	Surchar ged

Manchester College: Phase 2 Drainage	Date: 18/01/2024			
	Designed by: NM	Checked by: GT	Approved By: VB	
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford			

4.004	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	P2-S3	MHS6	29.789	27.239	0.450	123.229	1.9	1.58	280.0	Surchar ged
5.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	SRWP2	P2-S2 VENTED	30.000	28.627	0.225	35.554	0.7	0.13	81.4	OK
3.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G9	P2-S4	29.725	29.027	0.048	7.638	2.8	0.1	17.5	OK
3.001	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	P2-S4	P2-S5	29.925	28.034	0.130	7.643	0.6	0.02	17.4	OK
2.006	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	EX- MHS3	P2-S5	29.730	27.779	0.222	16.254	0.9	0.98	33.9	Surchar ged
2.004	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	J4	EX-MHS3	29.697	27.854	0.195	16.269	1.0	0.83	35.7	OK
6.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	G2	J1	29.183	28.463	0.029	1.809	1.7	0.08	4.1	OK
Pipe	Sim Criteria FSR: 30 years: +45 %: 15 mins: Summer	Pipe	SW Stub	P2-S3	29.751	28.401	0.150	0.000	0.0	0	0.0	OK
1.000	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	P2-S5	EX- MHSBA	29.866	27.715	0.145	30.706	2.8	1.08	64.9	Surchar ged
1.000 (1)	Sim Criteria FSR: 30 years: +45 %: 15 mins: Winter	Pipe	EX- MHSBA	EX- MHSB4 (INTERC EPTOR)	29.790	27.505	0.200	30.700	2.1	0.32	64.8	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
	Designed by: NM	Checked by: GT	Approved By: VB
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		





Sim 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
4.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SRWP1	EX-MHS1A (AB)	30.000	28.686	0.225	123.771	2.4	0.49	283.5	OK
2.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G1	S2	29.010	28.331	0.082	4.923	1.4	0.4	11.2	OK
2.001	Sim Criteria FSR: 100 years: +45 %: 30 mins: Summer	Pipe	S2	J1	29.210	28.028	0.087	5.896	0.7	0.22	9.5	OK
2.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	J1	J2	29.420	28.038	0.177	6.481	0.7	0.31	13.2	OK
7.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G3	J2	29.360	28.666	0.052	6.489	2.7	0.23	14.8	OK
2.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	J2	J4	29.456	28.032	0.225	12.275	0.9	0.63	27.1	OK
8.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G5	J4	29.623	28.929	0.052	7.271	3.1	0.22	16.6	OK
10.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G11	P2-S5	29.702	28.986	0.150	3.373	0.5	0.12	7.7	OK
11.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G10	P2-S5	29.701	28.994	0.150	5.450	0.7	0.19	12.5	OK
1.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	EX-MHSB4 (INTERCEPTOR)	MHS6	29.770	27.511	0.200	38.876	2.5	2.47	77.4	Surcharged
1.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MHS7	Node	29.117	27.358	0.525	20.638	0.6	0.28	60.6	Surcharged
12.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	G14	Node	29.890	29.042	0.150	4.634	3.8	0.1	11.8	OK
1.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Node	EX MH 8	29.920	27.470	0.525	15.676	0.3	0.08	26.4	Surcharged
13.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G15	EX MH 8	29.890	29.030	0.150	2.855	1.8	0.05	6.5	OK
14.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	HEE-CH2	HEE-S1	34.352	34.197	0.100	3.243	1.0	0.78	7.6	Flood Risk
15.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	HEE-CH1	HEE-S1	35.050	34.369	0.100	0.518	0.2	0.08	1.2	OK

Manchester College: Phase 2 Drainage	Date: 18/01/2024		
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Report Details: Type: Connections Summary Storm Phase: Storm	Company Address: AECOM 100 Embankment, Cathedral Approach Salford		



14.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	HEE-S1	HEE-S2	34.417	34.006	0.100	3.929	1.1	1.2	8.7	Surchar
14.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	HEE-S2	PH1-CH1	34.400	33.866	0.100	4.399	1.1	1.06	8.5	Surchar
14.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Custom	PH1-CH1	PH1-CH2	33.820	33.597	0.060	5.177	1.7	0.17	9.9	Flood Risk
14.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Custom	PH1-CH2	PH1-CH3	33.083	32.865	0.064	5.314	1.8	0.2	11.6	Flood Risk
14.005	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Custom	PH1-CH3	PH1-CH4	32.408	32.193	0.066	5.775	1.9	0.21	12.8	Flood Risk
14.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Custom	PH1-CH4	PH1-CH5	31.708	31.494	0.068	6.236	2.0	0.22	13.9	Flood Risk
14.007	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Custom	PH1-CH5	G16	30.938	30.728	0.068	7.506	2.1	0.24	15.1	Flood Risk
14.008	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G16	S9	30.152	29.322	0.048	8.022	3.3	0.21	16.2	OK
16.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G17	S9	29.880	29.028	0.035	2.335	2.0	0.08	5.3	OK
14.009	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S9	S10	29.937	28.186	0.076	10.351	1.8	0.49	21.3	OK
14.010	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	S10	EX MH 8	29.975	27.986	0.225	10.341	0.6	0.06	21.3	OK
1.006	Sim Criteria FSR: 100 years: +45 %: 240 mins: Winter	Pipe	EX MH 8	UU-C2	28.936	28.271	0.058	381.380	2.0	0.04	16.0	Surchar
1.007	Sim Criteria FSR: 100 years: +45 %: 1440 mins: Winter	Pipe	UU-C2	UU Outfall	29.937	23.442	0.087	888.567	0.6	0.04	16.0	OK
1.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MHS6	Tank	29.797	27.451	0.525	193.846	4.2	0.48	445.2	Surchar
1.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Tank	MHS7	29.454	27.347	0.525	28.522	0.9	0.37	102.4	Surchar
4.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	EX-MHS1A (AB)	P2-S1	29.973	28.008	0.450	121.724	1.7	0.64	277.1	Surchar
4.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	P2-S1	P2-S2 VENTED	29.974	27.882	0.450	119.362	1.7	0.86	273.1	Surchar
4.003	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	P2-S2 VENTED	P2-S3	29.925	27.715	0.450	161.092	2.4	1.28	374.7	Surchar

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4.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	P2-S3	MHS6	29.789	27.452	0.450	157.790	2.3	2.11	372.2	Surchar ged
5.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	SRWP2	P2-S2 VENTED	30.000	28.634	0.225	45.899	0.9	0.16	105.2	OK
3.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G9	P2-S4	29.725	29.035	0.055	9.864	3.0	0.13	22.5	OK
3.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	P2-S4	P2-S5	29.925	28.040	0.234	9.871	0.6	0.03	22.4	OK
2.006	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	EX- MHS3	P2-S5	29.730	27.870	0.225	18.754	1.0	1.17	40.4	Surchar ged
2.004	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	J4	EX-MHS3	29.697	28.086	0.225	21.017	1.0	0.95	40.5	Surchar ged
6.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	G2	J1	29.183	28.468	0.043	2.335	1.8	0.1	5.3	OK
Pipe	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	SW Stub	P2-S3	29.751	28.401	0.150	0.000	0.0	0	0.0	OK
1.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	P2-S5	EX- MHSBA	29.866	27.928	0.200	39.688	2.7	1.33	79.5	Surchar ged
1.000 (1)	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	EX- MHSBA	EX- MHSB4 (INTERC EPTOR)	29.790	27.631	0.200	39.686	2.5	0.39	79.3	Surchar ged