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EXTERNAL REFERENCES:

THIS INFORMATION & RIDGE & PARTNERS LLP CIVILS 3D MODEL & ASSOCIATED 3D OUTPUTS ARE BASED UPON THE FOLLOWING INFORMATION FROM THE DESIGN TEAM

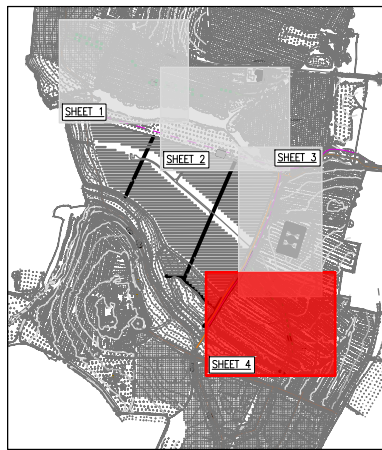
ARCHITECT REFERENCE:

- ARCH DWG No. 30454A / XX (DATED DEC 22)

SURVEY REFERENCE:

- SURVEY DWG No. ENCIONE-HH-FEB21 (DATED FEB 21)

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS INFORMATION IS CURRENT PRIOR TO CONSTRUCTION



P02	UPDATED DRAINAGE LAYOUT	01/12/2023	BT
P01	UPDATED DRAINAGE LAYOUT	27/07/2023	PO
REV	INITIAL ISSUE	16/06/2023	JM
REV	DESCRIPTION	DATE	DRAWN

ORIGINATOR:

1	ROYAL COURT	TEL: 01962 834400
2	KINGS WORTHY	
3	WINCHESTER	
4	SO23 7TW	WWW.RIDGE.CO.UK

RIDGE

1 ROYAL COURT
KINGS WORTHY
WINCHESTER
SO23 7TW

TEL: 01962 834400
WWW.RIDGE.CO.UK

CLIENT:

EASTLEIGH
BOROUGH COUNCIL

IN ASSOCIATION WITH:

PROJECT:
**ONE HORTON HEATH
SITE WIDE
INFRASTRUCTURE DELIVERY**

TITLE:
**DRAINAGE STRATEGY
SHEET 4**

TECH:	PO	CSE:	ICSE:	SCALE:	1:500	@	A1
STATUS:				INITIAL ISSUE:	16/06/2023		

DRAWING No:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5018551	RDG	XX	ST	DR	C	0504	P02	

APPENDIX D

SURFACE WATER CALCULATIONS

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Inflow Summary Storm Phase: Phase	Ridge:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
CATCHMEN T_F1	MH_CF14		Time of Concentration	0.338	65	0	65	0.220
CATCHMEN T_F2	MH_CF16		Time of Concentration	0.289	65	0	65	0.188
CATCHMEN T_F3	MH_CF12		Time of Concentration	0.454	65	0	65	0.295
CATCHMEN T_F4	MH_CF11		Time of Concentration	0.417	65	0	65	0.271
CATCHMEN T_F5	MH_CF10		Time of Concentration	0.317	65	0	65	0.206
CATCHMEN T_F6	MH_CF8		Time of Concentration	0.270	65	0	65	0.176
CATCHMEN T_F7	MH_CF7		Time of Concentration	0.265	65	0	65	0.172
CATCHMEN T_F8	MH_CF3		Time of Concentration	0.330	65	0	65	0.215
CATCHMEN T_F9	GG_F8		Time of Concentration	0.168	65	0	65	0.109
CATCHMEN T_F10	MH_CF18		Time of Concentration	0.481	65	0	65	0.313
CATCHMEN T_F11	MH_CF7		Time of Concentration	0.216	65	0	65	0.140
CATCHMEN T_G1	MH_CG34		Time of Concentration	1.525	65	0	65	0.991
CATCHMEN T_G2	GG_G5 (1)		Time of Concentration	1.236	65	0	65	0.803
CATCHMEN T_G3	MH_CG32		Time of Concentration	0.698	65	0	65	0.454
CATCHMEN T_G4	GG_G5		Time of Concentration	1.923	50	0	50	0.961
CATCHMEN T_G5	GG_G6		Time of Concentration	1.090	50	0	50	0.545
CATCHMEN T_H1	MH_CG36		Time of Concentration	1.540	30	0	30	0.462
CATCHMEN T_H2	GG_H2		Time of Concentration	2.416	65	0	65	1.570
CATCHMEN T_H3	MH_CH40		Time of Concentration	1.463	65	0	65	0.951
CATCHMEN T_H4	GG_H4		Time of Concentration	1.024	65	0	65	0.666
CATCHMEN T_H5	GG_H5		Time of Concentration	1.739	65	0	65	1.130
CATCHMEN T_H6	MH_CH48		Time of Concentration	1.191	65	0	65	0.774
F_ROAD_1	MH_CF17		Time of Concentration	0.234	100	0	100	0.234
F_ROAD_2	MH_CF11		Time of Concentration	0.342	100	0	100	0.342
F_ROAD_3	MH_CF4		Time of Concentration	0.161	100	0	100	0.161
F_ROAD_4	MH_CF2		Time of Concentration	0.096	100	0	100	0.096
G_ROAD_1	MH_CG22		Time of Concentration	0.260	100	0	100	0.260
G_ROAD_2	MH_CG34		Time of Concentration	0.237	100	0	100	0.237
H_ROAD_1	MH_CG36		Time of Concentration	0.352	100	0	100	0.352
H_ROAD_2	MH_CH37		Time of Concentration	0.284	100	0	100	0.284
H_ROAD_3	MH_CH42		Time of Concentration	0.306	100	0	100	0.306
TOTAL		0.0		21.662				13.885

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Ridge:			

Flow Options

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

FSR

Type: FSR

Return Period (years)	100.0
Region	England And Wales
M5-60 (mm)	19.9
Ratio R	0.350

Lock Slope Options	None
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Pipe Size Library

Default

Add. Increment (mm)	75
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Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
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Manhole Size Library

Default

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Ridge:			

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
OUTFALL_H	Free Discharge		
OUTFALL_F	Free Discharge		
OUTFALL_G	Free Discharge		

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Ridge:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall		
FSR	Type: FSR	
Region	England And Wales	
M5-60 (mm)	19.9	
Ratio R	0.350	
Summer	☒	
Winter	☒	

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

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023		
	Designed by: BT	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Ridge:		

RIDGE



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)
F_ROAD_1	FSR: 1 years: +0 %: 15 mins: Winter	0.23	31.2	14.478
F_ROAD_2	FSR: 1 years: +0 %: 15 mins: Winter	0.34	45.5	21.103
F_ROAD_3	FSR: 1 years: +0 %: 15 mins: Winter	0.16	21.4	9.935
F_ROAD_4	FSR: 1 years: +0 %: 15 mins: Winter	0.10	12.9	5.964
G_ROAD_2	FSR: 1 years: +0 %: 15 mins: Winter	0.24	31.5	14.622
G_ROAD_1	FSR: 1 years: +0 %: 15 mins: Winter	0.26	34.6	16.064
H_ROAD_2	FSR: 1 years: +0 %: 15 mins: Winter	0.28	37.8	17.545
CATCHMENT_H4	FSR: 1 years: +0 %: 15 mins: Winter	1.02	88.7	41.138
CATCHMENT_H3	FSR: 1 years: +0 %: 15 mins: Winter	1.46	126.6	58.755
CATCHMENT_H2	FSR: 1 years: +0 %: 15 mins: Winter	2.42	209.1	97.027
CATCHMENT_H5	FSR: 1 years: +0 %: 15 mins: Winter	1.74	150.5	69.834
CATCHMENT_H6	FSR: 1 years: +0 %: 15 mins: Winter	1.19	103.1	47.812
CATCHMENT_H1	FSR: 1 years: +0 %: 15 mins: Winter	1.54	61.5	28.546
CATCHMENT_G5	FSR: 1 years: +0 %: 15 mins: Winter	1.09	72.6	33.672
CATCHMENT_G4	FSR: 1 years: +0 %: 15 mins: Winter	1.92	128.0	59.393
CATCHMENT_G2	FSR: 1 years: +0 %: 15 mins: Winter	1.24	107.0	49.622
CATCHMENT_G1	FSR: 1 years: +0 %: 15 mins: Winter	1.52	132.0	61.236
CATCHMENT_G3	FSR: 1 years: +0 %: 15 mins: Winter	0.70	60.4	28.034
CATCHMENT_F9	FSR: 1 years: +0 %: 15 mins: Winter	0.17	14.5	6.736
CATCHMENT_F8	FSR: 1 years: +0 %: 15 mins: Winter	0.33	28.6	13.266

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CATCHME NT_F6	FSR: 1 years: +0 %: 15 mins: Winter	0.27	23.4	10.854
CATCHME NT_F3	FSR: 1 years: +0 %: 15 mins: Winter	0.45	39.3	18.245
CATCHME NT_F1	FSR: 1 years: +0 %: 15 mins: Winter	0.34	29.3	13.577
CATCHME NT_F10	FSR: 1 years: +0 %: 15 mins: Winter	0.48	41.6	19.323
CATCHME NT_F11	FSR: 1 years: +0 %: 15 mins: Winter	0.22	18.7	8.654
CATCHME NT_F2	FSR: 1 years: +0 %: 15 mins: Winter	0.29	25.0	11.596
CATCHME NT_F4	FSR: 1 years: +0 %: 15 mins: Winter	0.42	36.1	16.761
CATCHME NT_F5	FSR: 1 years: +0 %: 15 mins: Winter	0.32	27.4	12.727
CATCHME NT_F7	FSR: 1 years: +0 %: 15 mins: Winter	0.27	22.9	10.641
H_ROAD_ 1	FSR: 1 years: +0 %: 15 mins: Winter	0.35	46.9	21.774
H_ROAD_ 3	FSR: 1 years: +0 %: 15 mins: Winter	0.31	40.7	18.892

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Ridge:			



FSR: 30 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)
F_ROAD_1	FSR: 30 years: +0 %: 15 mins: Winter	0.23	76.6	35.521
F_ROAD_2	FSR: 30 years: +0 %: 15 mins: Winter	0.34	111.7	51.781
F_ROAD_3	FSR: 30 years: +0 %: 15 mins: Winter	0.16	52.6	24.381
F_ROAD_4	FSR: 30 years: +0 %: 15 mins: Winter	0.10	31.5	14.624
G_ROAD_2	FSR: 30 years: +0 %: 15 mins: Winter	0.24	77.4	35.877
G_ROAD_1	FSR: 30 years: +0 %: 15 mins: Winter	0.26	85.0	39.421
H_ROAD_2	FSR: 30 years: +0 %: 15 mins: Winter	0.28	92.9	43.049
CATCHMENT_H4	FSR: 30 years: +0 %: 15 mins: Winter	1.02	217.7	100.940
CATCHMENT_H3	FSR: 30 years: +0 %: 15 mins: Winter	1.46	311.0	144.166
CATCHMENT_H2	FSR: 30 years: +0 %: 15 mins: Winter	2.42	513.5	238.073
CATCHMENT_H5	FSR: 30 years: +0 %: 15 mins: Winter	1.74	369.6	171.350
CATCHMENT_H6	FSR: 30 years: +0 %: 15 mins: Winter	1.19	253.0	117.311
CATCHMENT_H1	FSR: 30 years: +0 %: 15 mins: Winter	1.54	151.1	70.048
CATCHMENT_G5	FSR: 30 years: +0 %: 15 mins: Winter	1.09	178.2	82.626
CATCHMENT_G4	FSR: 30 years: +0 %: 15 mins: Winter	1.92	314.3	145.730

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
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Report Details: Type: Inflows Summary Storm Phase: Phase		Ridge:			

CATCHME NT_G2	FSR: 30 years: +0 %: 15 mins: Winter	1.24	262.6	121.756
CATCHME NT_G1	FSR: 30 years: +0 %: 15 mins: Winter	1.52	324.1	150.259
CATCHME NT_G3	FSR: 30 years: +0 %: 15 mins: Winter	0.70	148.4	68.792
CATCHME NT_F9	FSR: 30 years: +0 %: 15 mins: Winter	0.17	35.6	16.523
CATCHME NT_F8	FSR: 30 years: +0 %: 15 mins: Winter	0.33	70.2	32.552
CATCHME NT_F6	FSR: 30 years: +0 %: 15 mins: Winter	0.27	57.4	26.630
CATCHME NT_F3	FSR: 30 years: +0 %: 15 mins: Winter	0.45	96.6	44.765
CATCHME NT_F1	FSR: 30 years: +0 %: 15 mins: Winter	0.34	71.9	33.313
CATCHME NT_F10	FSR: 30 years: +0 %: 15 mins: Winter	0.48	102.3	47.416
CATCHME NT_F11	FSR: 30 years: +0 %: 15 mins: Winter	0.22	45.8	21.241
CATCHME NT_F2	FSR: 30 years: +0 %: 15 mins: Winter	0.29	61.4	28.455
CATCHME NT_F4	FSR: 30 years: +0 %: 15 mins: Winter	0.42	88.7	41.135
CATCHME NT_F5	FSR: 30 years: +0 %: 15 mins: Winter	0.32	67.4	31.228
CATCHME NT_F7	FSR: 30 years: +0 %: 15 mins: Winter	0.27	56.3	26.118
H_ROAD_ 1	FSR: 30 years: +0 %: 15 mins: Winter	0.35	115.2	53.428
H_ROAD_ 3	FSR: 30 years: +0 %: 15 mins: Winter	0.31	100.0	46.353

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Report Details: Type: Inflows Summary Storm Phase: Phase	Ridge:		

RIDGE



FSR: 100 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)
F_ROAD_1	FSR: 100 years: +0 %: 15 mins: Winter	0.23	99.3	46.027
F_ROAD_2	FSR: 100 years: +0 %: 15 mins: Winter	0.34	144.8	67.098
F_ROAD_3	FSR: 100 years: +0 %: 15 mins: Winter	0.16	68.2	31.591
F_ROAD_4	FSR: 100 years: +0 %: 15 mins: Winter	0.10	40.9	18.954
G_ROAD_2	FSR: 100 years: +0 %: 15 mins: Winter	0.24	100.3	46.485
G_ROAD_1	FSR: 100 years: +0 %: 15 mins: Winter	0.26	110.2	51.078
H_ROAD_2	FSR: 100 years: +0 %: 15 mins: Winter	0.28	120.3	55.782
CATCHMENT_H4	FSR: 100 years: +0 %: 15 mins: Winter	1.02	282.2	130.793
CATCHMENT_H3	FSR: 100 years: +0 %: 15 mins: Winter	1.46	403.0	186.809
CATCHMENT_H2	FSR: 100 years: +0 %: 15 mins: Winter	2.42	665.5	308.493
CATCHMENT_H5	FSR: 100 years: +0 %: 15 mins: Winter	1.74	479.0	222.031
CATCHMENT_H6	FSR: 100 years: +0 %: 15 mins: Winter	1.19	328.0	152.015
CATCHMENT_H1	FSR: 100 years: +0 %: 15 mins: Winter	1.54	195.8	90.765
CATCHMENT_G5	FSR: 100 years: +0 %: 15 mins: Winter	1.09	231.0	107.064
CATCHMENT_G4	FSR: 100 years: +0 %: 15 mins: Winter	1.92	407.4	188.834

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase	Ridge:			

CATCHME NT_G2	FSR: 100 years: +0 %: 15 mins: Winter	1.24	340.4	157.773
CATCHME NT_G1	FSR: 100 years: +0 %: 15 mins: Winter	1.52	420.1	194.703
CATCHME NT_G3	FSR: 100 years: +0 %: 15 mins: Winter	0.70	192.3	89.135
CATCHME NT_F9	FSR: 100 years: +0 %: 15 mins: Winter	0.17	46.2	21.413
CATCHME NT_F8	FSR: 100 years: +0 %: 15 mins: Winter	0.33	91.0	42.173
CATCHME NT_F6	FSR: 100 years: +0 %: 15 mins: Winter	0.27	74.4	34.500
CATCHME NT_F3	FSR: 100 years: +0 %: 15 mins: Winter	0.45	125.1	58.005
CATCHME NT_F1	FSR: 100 years: +0 %: 15 mins: Winter	0.34	93.1	43.165
CATCHME NT_F10	FSR: 100 years: +0 %: 15 mins: Winter	0.48	132.6	61.445
CATCHME NT_F11	FSR: 100 years: +0 %: 15 mins: Winter	0.22	59.4	27.525
CATCHME NT_F2	FSR: 100 years: +0 %: 15 mins: Winter	0.29	79.6	36.876
CATCHME NT_F4	FSR: 100 years: +0 %: 15 mins: Winter	0.42	115.0	53.301
CATCHME NT_F5	FSR: 100 years: +0 %: 15 mins: Winter	0.32	87.3	40.469
CATCHME NT_F7	FSR: 100 years: +0 %: 15 mins: Winter	0.27	73.0	33.844
H_ROAD_ 1	FSR: 100 years: +0 %: 15 mins: Winter	0.35	149.4	69.235
H_ROAD_ 3	FSR: 100 years: +0 %: 15 mins: Winter	0.31	129.6	60.060

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RIDGE



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)
F_ROAD_1	FSR: 100 years: +45 %: 15 mins: Winter	0.23	144.6	66.735
F_ROAD_2	FSR: 100 years: +45 %: 15 mins: Winter	0.34	210.8	97.282
F_ROAD_3	FSR: 100 years: +45 %: 15 mins: Winter	0.16	99.2	45.812
F_ROAD_4	FSR: 100 years: +45 %: 15 mins: Winter	0.10	59.5	27.479
G_ROAD_2	FSR: 100 years: +45 %: 15 mins: Winter	0.24	146.0	67.404
G_ROAD_1	FSR: 100 years: +45 %: 15 mins: Winter	0.26	160.4	74.061
H_ROAD_2	FSR: 100 years: +45 %: 15 mins: Winter	0.28	175.2	80.879
CATCHMENT_H4	FSR: 100 years: +45 %: 15 mins: Winter	1.02	410.8	189.643
CATCHMENT_H3	FSR: 100 years: +45 %: 15 mins: Winter	1.46	586.8	270.858
CATCHMENT_H2	FSR: 100 years: +45 %: 15 mins: Winter	2.42	969.0	447.297
CATCHMENT_H5	FSR: 100 years: +45 %: 15 mins: Winter	1.74	697.4	321.930
CATCHMENT_H6	FSR: 100 years: +45 %: 15 mins: Winter	1.19	477.5	220.405
CATCHMENT_H1	FSR: 100 years: +45 %: 15 mins: Winter	1.54	285.1	131.604
CATCHMENT_G5	FSR: 100 years: +45 %: 15 mins: Winter	1.09	336.3	155.234
CATCHMENT_G4	FSR: 100 years: +45 %: 15 mins: Winter	1.92	593.1	273.803

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Ridge:			

CATCHME NT_G2	FSR: 100 years: +45 %: 15 mins: Winter	1.24	495.6	228.758
CATCHME NT_G1	FSR: 100 years: +45 %: 15 mins: Winter	1.52	611.6	282.308
CATCHME NT_G3	FSR: 100 years: +45 %: 15 mins: Winter	0.70	280.0	129.244
CATCHME NT_F9	FSR: 100 years: +45 %: 15 mins: Winter	0.17	67.3	31.044
CATCHME NT_F8	FSR: 100 years: +45 %: 15 mins: Winter	0.33	132.5	61.154
CATCHME NT_F6	FSR: 100 years: +45 %: 15 mins: Winter	0.27	108.4	50.027
CATCHME NT_F3	FSR: 100 years: +45 %: 15 mins: Winter	0.45	182.2	84.106
CATCHME NT_F1	FSR: 100 years: +45 %: 15 mins: Winter	0.34	135.6	62.592
CATCHME NT_F10	FSR: 100 years: +45 %: 15 mins: Winter	0.48	193.0	89.082
CATCHME NT_F11	FSR: 100 years: +45 %: 15 mins: Winter	0.22	86.5	39.909
CATCHME NT_F2	FSR: 100 years: +45 %: 15 mins: Winter	0.29	115.8	53.466
CATCHME NT_F4	FSR: 100 years: +45 %: 15 mins: Winter	0.42	167.4	77.281
CATCHME NT_F5	FSR: 100 years: +45 %: 15 mins: Winter	0.32	127.1	58.673
CATCHME NT_F7	FSR: 100 years: +45 %: 15 mins: Winter	0.27	106.3	49.068
H_ROAD_ 1	FSR: 100 years: +45 %: 15 mins: Winter	0.35	217.5	100.380
H_ROAD_ 3	FSR: 100 years: +45 %: 15 mins: Winter	0.31	188.7	87.087

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Ridge:			



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
MH_CF14	FSR: 1 years: +0 %: 15 mins: Winter	22.81 0	20.09 6	20.202	0.106	29.3	0.119	0.000	27.9	13.613	OK
MH_CF16	FSR: 1 years: +0 %: 15 mins: Winter	21.57 0	19.55 7	19.673	0.116	77.8	0.131	0.000	76.4	39.553	OK
MH_CF18	FSR: 1 years: +0 %: 15 mins: Winter	20.81 0	18.70 7	18.863	0.156	118.0	0.176	0.000	115.2	58.910	OK
MH_CF17	FSR: 1 years: +0 %: 15 mins: Winter	21.93 0	20.00 0	20.101	0.101	31.2	0.114	0.000	29.3	14.472	OK
MH_CF15	FSR: 1 years: +0 %: 15 mins: Winter	21.72 0	19.75 6	19.876	0.120	27.9	0.136	0.000	23.4	13.505	OK
MH_CF12	FSR: 1 years: +0 %: 15 mins: Winter	22.44 0	19.97 9	20.235	0.256	134.8	0.888	0.000	129.4	68.668	OK
MH_CF11	FSR: 1 years: +0 %: 15 mins: Winter	22.92 0	20.34 9	20.571	0.222	107.6	0.251	0.000	95.4	50.489	OK
MH_CF9	FSR: 1 years: +0 %: 15 mins: Winter	23.51 0	20.11 8	20.268	0.150	107.4	0.169	0.000	102.4	59.421	OK
MH_CF8	FSR: 1 years: +0 %: 15 mins: Winter	23.93 0	20.40 1	20.590	0.189	113.6	0.213	0.000	107.4	59.529	OK
MH_CF4	FSR: 1 years: +0 %: 15 mins: Winter	24.63 0	21.25 7	21.425	0.168	60.1	0.190	0.000	58.5	29.686	OK
MH_CF3	FSR: 1 years: +0 %: 15 mins: Winter	25.12 0	22.56 7	22.655	0.088	41.6	0.099	0.000	38.7	19.778	OK
MH_CF7	FSR: 1 years: +0 %: 15 mins: Winter	24.21 0	20.70 2	20.856	0.154	94.3	0.175	0.000	90.2	48.751	OK
MH_CF10	FSR: 1 years: +0 %: 15 mins: Winter	23.36 0	20.55 7	20.659	0.102	27.4	0.181	0.000	26.0	12.737	OK
MH_CG22	FSR: 1 years: +0 %: 15 mins: Winter	27.29 0	24.03 5	24.112	0.077	34.8	0.197	0.000	33.9	27.705	OK
MH_CG24	FSR: 1 years: +0 %: 30 mins: Winter	26.87 0	23.37 2	23.492	0.120	31.9	0.136	0.000	31.4	49.129	OK
MH_CG28	FSR: 1 years: +0 %: 30 mins: Winter	26.05 0	22.47 2	22.602	0.130	55.1	0.147	0.000	54.8	105.354	OK
MH_CG34	FSR: 1 years: +0 %: 15 mins: Winter	25.47 0	21.31 3	21.597	0.284	236.6	0.321	0.000	220.3	156.318	OK
MH_CG35	FSR: 1 years: +0 %: 15 mins: Winter	24.93 0	20.95 6	21.206	0.250	220.3	0.283	0.000	210.5	154.918	OK
MH_CG36	FSR: 1 years: +0 %: 15 mins: Winter	27.46 0	24.56 0	24.759	0.199	108.5	0.506	0.000	103.2	50.386	OK
MH_CG37	FSR: 1 years: +0 %: 15 mins: Winter	27.18 0	24.00 0	24.157	0.157	103.2	0.177	0.000	95.8	50.251	OK
MH_CG39	FSR: 1 years: +0 %: 15 mins: Winter	26.40 0	23.00 0	23.200	0.200	88.1	0.226	0.000	85.1	50.100	OK
MH_CG41	FSR: 1 years: +0 %: 15 mins: Winter	25.92 0	22.78 1	22.909	0.128	81.9	0.145	0.000	78.0	50.020	OK
MH_CH38	FSR: 1 years: +0 %: 15 mins: Winter	25.30 0	23.19 6	23.270	0.074	36.2	0.083	0.000	33.7	31.149	OK
MH_CH42	FSR: 1 years: +0 %: 15 mins: Winter	22.77 0	19.97 1	20.079	0.108	40.7	0.122	0.000	38.5	20.952	OK
MH_CH43	FSR: 1 years: +0 %: 15 mins: Summer	21.77 0	20.14 8	20.148	0.000	0.0	0.000	0.000	0.0	0.000	OK
MH_CH40	FSR: 1 years: +0 %: 15 mins: Winter	24.58 0	19.43 3	19.666	0.233	194.7	0.593	0.000	183.6	109.270	OK
MH_CH47	FSR: 1 years: +0 %: 15 mins: Winter	22.99 0	18.92 1	19.123	0.202	176.6	0.229	0.000	162.8	116.184	OK
OUTFALL_H	FSR: 1 years: +0 %: 960 mins: Winter	17.86 2	16.66 2	16.873	0.211	37.7	0.239	0.000	37.7	1494.465	OK
OUTFALL_F	FSR: 1 years: +0 %: 960 mins: Winter	17.77 0	16.57 0	16.688	0.118	10.0	0.133	0.000	10.0	567.986	OK
OUTFALL_G	FSR: 1 years: +0 %: 960 mins: Winter	20.56 3	19.36 3	19.563	0.201	27.9	0.227	0.000	27.9	1024.745	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Ridge:			

MH_CH50	FSR: 1 years: +0 %: 30 mins: Winter	20.83 0	18.03 6	18.287	0.251	290.7	0.283	0.000	290.4	318.143	OK
MH_CH36	FSR: 1 years: +0 %: 240 mins: Winter	25.71 0	23.75 0	24.213	0.463	19.5	0.524	0.000	16.0	243.442	OK
MH_CH37	FSR: 1 years: +0 %: 15 mins: Winter	25.77 0	23.68 1	23.779	0.098	38.2	0.249	0.000	36.2	31.829	OK
MH_CH41	FSR: 1 years: +0 %: 240 mins: Winter	22.61 0	20.18 8	20.417	0.229	7.1	0.259	0.000	6.6	90.232	OK
MH_CH31	FSR: 1 years: +0 %: 240 mins: Winter	22.43 0	19.47 0	19.727	0.257	9.2	0.290	0.000	9.1	176.067	OK
MH_CG19	FSR: 1 years: +0 %: 60 mins: Winter	27.58 0	25.05 4	25.465	0.411	17.0	0.465	0.000	11.8	49.982	OK
MH_CG20	FSR: 1 years: +0 %: 60 mins: Winter	27.43 0	24.60 0	24.660	0.060	11.8	0.068	0.000	11.8	49.778	OK
MH_CG29	FSR: 1 years: +0 %: 60 mins: Winter	25.61 9	23.11 9	24.438	1.319	23.7	1.491	0.000	25.3	90.723	Surcharged
MH_CF2	FSR: 1 years: +0 %: 15 mins: Winter	26.21 0	23.45 3	23.496	0.043	13.2	0.049	0.000	13.0	6.591	OK
MH_CF1	FSR: 1 years: +0 %: 360 mins: Winter	26.15 0	23.54 5	24.141	0.596	1.3	0.674	0.000	0.6	20.216	Surcharged
MH_CG32	FSR: 1 years: +0 %: 30 mins: Winter	25.97 0	21.53 0	21.710	0.180	94.4	0.886	0.000	92.1	153.197	OK
MH_CF13	FSR: 1 years: +0 %: 1440 mins: Winter	21.72 0	19.53 6	19.910	0.374	4.3	0.423	0.000	4.3	621.306	OK
MH_CH45	FSR: 1 years: +0 %: 15 mins: Winter	23.77 0	19.70 2	19.801	0.099	38.5	0.175	0.000	35.6	20.641	OK
MH_CG30	FSR: 1 years: +0 %: 30 mins: Winter	25.99 0	22.28 9	22.439	0.150	54.8	0.382	0.000	53.4	104.412	OK
MH_CG27	FSR: 1 years: +0 %: 30 mins: Winter	26.16 0	22.86 0	22.942	0.082	30.4	0.093	0.000	29.8	48.299	OK
MH_CG26	FSR: 1 years: +0 %: 30 mins: Winter	26.44 0	23.11 3	23.213	0.100	31.0	0.113	0.000	30.4	48.583	OK
MH_CH49	FSR: 1 years: +0 %: 15 mins: Winter	21.51 2	18.22 7	18.530	0.303	305.4	0.343	0.000	287.8	211.133	OK
MH_CH46	FSR: 1 years: +0 %: 15 mins: Winter	23.07 0	19.10 5	19.334	0.229	183.6	0.259	0.000	173.1	108.354	OK
MH_CH48	FSR: 1 years: +0 %: 15 mins: Winter	22.65 0	18.47 8	18.797	0.319	335.3	1.106	0.000	305.4	212.234	OK
MH_CG42	FSR: 1 years: +0 %: 30 mins: Winter	24.23 0	21.62 4	21.741	0.117	72.7	0.132	0.000	72.7	66.864	OK
MH_CG31	FSR: 1 years: +0 %: 15 mins: Winter	26.08 0	22.16 3	22.311	0.148	50.7	0.168	0.000	53.0	50.129	OK
MH_CG33	FSR: 1 years: +0 %: 240 mins: Winter	25.84 0	24.21 8	24.472	0.254	6.2	0.287	0.000	6.2	117.922	OK
MH_CF6	FSR: 1 years: +0 %: 15 mins: Winter	24.31 0	21.08 9	21.194	0.105	55.3	0.119	0.000	52.7	29.491	OK
MH_CF5	FSR: 1 years: +0 %: 15 mins: Winter	24.48 0	21.18 9	21.343	0.154	58.5	0.174	0.000	55.3	29.596	OK
MH_CG25	FSR: 1 years: +0 %: 30 mins: Winter	26.64 0	23.29 8	23.393	0.095	31.4	0.107	0.000	31.0	48.898	OK
MH_CG23	FSR: 1 years: +0 %: 15 mins: Winter	27.11 0	23.49 9	23.617	0.118	33.9	0.134	0.000	32.2	27.293	OK
MH_CG21	FSR: 1 years: +0 %: 60 mins: Winter	27.39 0	24.42 4	24.474	0.050	11.8	0.056	0.000	11.8	49.696	OK
MH_CG40	FSR: 1 years: +0 %: 15 mins: Winter	26.26 0	22.90 0	23.090	0.190	85.1	0.215	0.000	81.9	50.049	OK
MH_CG38	FSR: 1 years: +0 %: 15 mins: Winter	26.51 0	23.11 0	23.313	0.203	95.8	0.230	0.000	88.1	50.139	OK
MH_CH39	FSR: 1 years: +0 %: 15 mins: Winter	24.97 0	21.28 5	21.358	0.073	33.7	0.082	0.000	32.5	30.827	OK
MH_CH44	FSR: 1 years: +0 %: 15 mins: Summer	22.24 0	20.11 5	20.115	0.000	0.0	0.000	0.000	0.0	0.000	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Ridge:			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH_CF14	FSR: 30 years: +0 %: 15 mins: Winter	22.81 0	20.09 6	20.274	0.178	71.9	0.201	0.000	69.1	33.360	OK
MH_CF16	FSR: 30 years: +0 %: 15 mins: Winter	21.57 0	19.55 7	19.757	0.200	194.6	0.226	0.000	191.8	97.157	OK
MH_CF18	FSR: 30 years: +0 %: 15 mins: Winter	20.81 0	18.70 7	18.970	0.263	294.0	0.297	0.000	288.2	144.648	OK
MH_CF17	FSR: 30 years: +0 %: 15 mins: Winter	21.93 0	20.00 0	20.167	0.167	76.6	0.189	0.000	72.9	35.509	OK
MH_CF15	FSR: 30 years: +0 %: 15 mins: Winter	21.72 0	19.75 6	19.961	0.205	69.1	0.232	0.000	60.3	33.217	OK
MH_CF12	FSR: 30 years: +0 %: 15 mins: Winter	22.44 0	19.97 9	20.413	0.434	324.7	1.502	0.000	316.2	168.669	OK
MH_CF11	FSR: 30 years: +0 %: 15 mins: Winter	22.92 0	20.34 9	20.776	0.427	255.1	0.483	0.000	228.2	123.989	OK
MH_CF9	FSR: 30 years: +0 %: 15 mins: Winter	23.51 0	20.11 8	20.376	0.258	272.8	0.291	0.000	262.9	145.644	OK
MH_CF8	FSR: 30 years: +0 %: 15 mins: Winter	23.93 0	20.40 1	20.722	0.320	285.0	0.362	0.000	272.8	145.792	OK
MH_CF4	FSR: 30 years: +0 %: 15 mins: Winter	24.63 0	21.25 7	21.535	0.278	148.9	0.315	0.000	145.9	72.183	OK
MH_CF3	FSR: 30 years: +0 %: 15 mins: Winter	25.12 0	22.56 7	22.709	0.142	101.8	0.161	0.000	96.3	47.832	OK
MH_CF7	FSR: 30 years: +0 %: 15 mins: Winter	24.21 0	20.70 2	20.974	0.272	236.4	0.308	0.000	227.5	119.252	OK
MH_CF10	FSR: 30 years: +0 %: 15 mins: Winter	23.36 0	20.55 7	20.802	0.245	67.4	0.433	0.000	54.7	31.237	OK
MH_CG22	FSR: 30 years: +0 %: 15 mins: Winter	27.29 0	24.03 5	24.168	0.133	93.0	0.340	0.000	90.3	54.018	OK
MH_CG24	FSR: 30 years: +0 %: 15 mins: Winter	26.87 0	23.37 2	23.574	0.202	85.4	0.228	0.000	81.0	53.140	OK
MH_CG28	FSR: 30 years: +0 %: 15 mins: Winter	26.05 0	22.47 2	22.648	0.176	94.9	0.199	0.000	91.3	82.378	OK
MH_CG34	FSR: 30 years: +0 %: 15 mins: Winter	25.47 0	21.31 3	21.866	0.553	599.7	0.625	0.000	561.7	337.923	OK
MH_CG35	FSR: 30 years: +0 %: 15 mins: Winter	24.93 0	20.95 6	21.378	0.422	561.7	0.477	0.000	545.6	336.683	OK
MH_CG36	FSR: 30 years: +0 %: 15 mins: Winter	27.46 0	24.56 0	24.921	0.361	266.3	0.919	0.000	253.8	123.542	OK
MH_CG37	FSR: 30 years: +0 %: 15 mins: Winter	27.18 0	24.00 0	24.278	0.278	253.8	0.315	0.000	236.9	123.266	OK
MH_CG39	FSR: 30 years: +0 %: 15 mins: Winter	26.40 0	23.00 0	23.372	0.372	219.9	0.420	0.000	213.9	123.177	OK
MH_CG41	FSR: 30 years: +0 %: 15 mins: Winter	25.92 0	22.78 1	22.999	0.217	208.2	0.246	0.000	201.0	123.090	OK
MH_CH38	FSR: 30 years: +0 %: 15 mins: Winter	25.30 0	23.19 6	23.318	0.122	96.4	0.138	0.000	89.8	61.409	OK
MH_CH42	FSR: 30 years: +0 %: 15 mins: Winter	22.77 0	19.97 1	20.145	0.174	100.6	0.196	0.000	94.1	53.539	OK
MH_CH43	FSR: 30 years: +0 %: 15 mins: Winter	21.77 0	20.14 8	20.148	0.000	0.0	0.001	0.000	0.0	0.000	OK
MH_CH40	FSR: 30 years: +0 %: 15 mins: Winter	24.58 0	19.43 3	19.833	0.400	476.5	1.017	0.000	453.7	256.894	OK
MH_CH47	FSR: 30 years: +0 %: 15 mins: Winter	22.99 0	18.92 1	19.270	0.349	444.1	0.395	0.000	419.7	266.312	OK
OUTFALL_H	FSR: 30 years: +0 %: 960 mins: Winter	17.86 2	16.66 2	16.984	0.322	67.1	0.364	0.000	67.1	3246.703	OK
OUTFALL_F	FSR: 30 years: +0 %: 480 mins: Winter	17.77 0	16.57 0	16.759	0.189	20.7	0.214	0.000	20.7	532.707	OK
OUTFALL_G	FSR: 30 years: +0 %: 480 mins: Winter	20.56 3	19.36 3	19.779	0.416	41.5	0.471	0.000	41.4	1573.297	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
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Report Details: Type: Junctions Summary Storm Phase: Phase		Ridge:			

MH_CH50	FSR: 30 years: +0 %: 15 mins: Winter	20.83 0	18.03 6	18.462	0.426	769.9	0.481	0.000	752.5	502.774	OK
MH_CH36	FSR: 30 years: +0 %: 240 mins: Winter	25.71 0	23.75 0	24.419	0.669	19.7	0.756	0.000	16.9	413.175	Surcharged
MH_CH37	FSR: 30 years: +0 %: 15 mins: Winter	25.77 0	23.68 1	23.843	0.162	101.7	0.411	0.000	96.4	62.217	OK
MH_CH41	FSR: 30 years: +0 %: 240 mins: Winter	22.61 0	20.18 8	20.524	0.336	7.9	0.380	0.000	7.3	169.003	OK
MH_CH31	FSR: 30 years: +0 %: 240 mins: Winter	22.43 0	19.47 0	19.944	0.474	10.5	0.536	0.000	10.5	257.193	Surcharged
MH_CG19	FSR: 30 years: +0 %: 120 mins: Winter	27.58 0	25.05 4	25.702	0.648	18.0	0.732	0.000	12.4	151.135	Surcharged
MH_CG20	FSR: 30 years: +0 %: 120 mins: Winter	27.43 0	24.60 0	24.661	0.061	12.4	0.069	0.000	12.4	150.450	OK
MH_CG29	FSR: 30 years: +0 %: 120 mins: Winter	25.61 9	23.11 9	24.666	1.547	31.6	1.750	0.000	25.3	277.762	Surcharged
MH_CF2	FSR: 30 years: +0 %: 15 mins: Winter	26.21 0	23.45 3	23.519	0.066	32.0	0.075	0.000	31.6	15.376	OK
MH_CF1	FSR: 30 years: +0 %: 360 mins: Winter	26.15 0	23.54 5	24.364	0.819	1.1	0.926	0.000	0.6	24.280	Surcharged
MH_CG32	FSR: 30 years: +0 %: 15 mins: Winter	25.97 0	21.53 0	21.911	0.381	227.0	1.870	0.000	198.2	153.630	OK
MH_CF13	FSR: 30 years: +0 %: 1440 mins: Winter	21.72 0	19.53 6	20.234	0.698	31.6	0.790	0.000	4.3	693.583	Surcharged
MH_CH45	FSR: 30 years: +0 %: 15 mins: Winter	23.77 0	19.70 2	19.873	0.171	94.1	0.302	0.000	78.8	52.778	OK
MH_CG30	FSR: 30 years: +0 %: 30 mins: Winter	25.99 0	22.28 9	22.490	0.201	91.4	0.511	0.000	91.4	147.292	OK
MH_CG27	FSR: 30 years: +0 %: 15 mins: Winter	26.16 0	22.86 0	22.993	0.132	74.4	0.150	0.000	71.1	52.181	OK
MH_CG26	FSR: 30 years: +0 %: 15 mins: Winter	26.44 0	23.11 3	23.275	0.162	78.1	0.184	0.000	74.4	52.515	OK
MH_CH49	FSR: 30 years: +0 %: 15 mins: Winter	21.51 2	18.22 7	18.775	0.549	798.6	0.621	0.000	769.9	503.307	OK
MH_CH46	FSR: 30 years: +0 %: 15 mins: Winter	23.07 0	19.10 5	19.498	0.393	453.7	0.444	0.000	435.6	255.754	OK
MH_CH48	FSR: 30 years: +0 %: 15 mins: Winter	22.65 0	18.47 8	19.088	0.610	858.7	2.115	0.000	798.6	504.616	OK
MH_CG42	FSR: 30 years: +0 %: 15 mins: Winter	24.23 0	21.62 4	21.824	0.200	201.0	0.227	0.000	186.0	122.870	OK
MH_CG31	FSR: 30 years: +0 %: 30 mins: Winter	26.08 0	22.16 3	22.363	0.200	91.4	0.226	0.000	91.5	144.859	OK
MH_CG33	FSR: 30 years: +0 %: 240 mins: Winter	25.84 0	24.21 8	24.660	0.442	7.0	0.500	0.000	7.0	170.061	Surcharged
MH_CF6	FSR: 30 years: +0 %: 15 mins: Winter	24.31 0	21.08 9	21.271	0.182	140.0	0.206	0.000	134.2	71.932	OK
MH_CF5	FSR: 30 years: +0 %: 15 mins: Winter	24.48 0	21.18 9	21.438	0.249	145.9	0.282	0.000	140.0	72.069	OK
MH_CG25	FSR: 30 years: +0 %: 15 mins: Winter	26.64 0	23.29 8	23.459	0.161	81.0	0.182	0.000	78.1	52.873	OK
MH_CG23	FSR: 30 years: +0 %: 15 mins: Winter	27.11 0	23.49 9	23.706	0.207	90.3	0.235	0.000	85.4	53.585	OK
MH_CG21	FSR: 30 years: +0 %: 60 mins: Winter	27.39 0	24.42 4	24.475	0.051	12.4	0.058	0.000	12.4	73.197	OK
MH_CG40	FSR: 30 years: +0 %: 15 mins: Winter	26.26 0	22.90 0	23.228	0.328	213.9	0.371	0.000	208.2	123.098	OK
MH_CG38	FSR: 30 years: +0 %: 15 mins: Winter	26.51 0	23.11 0	23.505	0.395	236.9	0.446	0.000	219.9	123.216	OK
MH_CH39	FSR: 30 years: +0 %: 15 mins: Winter	24.97 0	21.28 5	21.406	0.121	89.8	0.137	0.000	86.7	61.071	OK
MH_CH44	FSR: 30 years: +0 %: 15 mins: Winter	22.24 0	20.11 5	20.145	0.029	1.4	0.033	0.000	0.0	0.161	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Ridge:			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
MH_CF14	FSR: 100 years: +0 %: 15 mins: Winter	22.81 0	20.09 6	20.305	0.209	93.1	0.237	0.000	89.9	43.213	OK
MH_CF16	FSR: 100 years: +0 %: 15 mins: Winter	21.57 0	19.55 7	19.795	0.238	253.3	0.269	0.000	249.7	125.926	OK
MH_CF18	FSR: 100 years: +0 %: 15 mins: Winter	20.81 0	18.70 7	19.019	0.312	382.3	0.353	0.000	374.6	187.469	OK
MH_CF17	FSR: 100 years: +0 %: 15 mins: Winter	21.93 0	20.00 0	20.196	0.196	99.3	0.222	0.000	94.6	46.014	OK
MH_CF15	FSR: 100 years: +0 %: 15 mins: Winter	21.72 0	19.75 6	19.999	0.243	89.9	0.275	0.000	79.1	43.062	OK
MH_CF12	FSR: 100 years: +0 %: 15 mins: Winter	22.44 0	19.97 9	20.502	0.523	435.0	1.811	0.000	413.4	218.642	OK
MH_CF11	FSR: 100 years: +0 %: 15 mins: Winter	22.92 0	20.34 9	21.111	0.762	333.4	0.862	0.000	309.9	160.702	Surcharged
MH_CF9	FSR: 100 years: +0 %: 15 mins: Winter	23.51 0	20.11 8	20.421	0.303	354.2	0.343	0.000	343.0	188.602	OK
MH_CF8	FSR: 100 years: +0 %: 15 mins: Winter	23.93 0	20.40 1	20.779	0.378	368.3	0.427	0.000	354.2	188.790	OK
MH_CF4	FSR: 100 years: +0 %: 15 mins: Winter	24.63 0	21.25 7	21.580	0.323	196.9	0.366	0.000	187.9	93.328	OK
MH_CF3	FSR: 100 years: +0 %: 15 mins: Winter	25.12 0	22.56 7	22.732	0.165	131.9	0.186	0.000	128.7	61.751	OK
MH_CF7	FSR: 100 years: +0 %: 15 mins: Winter	24.21 0	20.70 2	21.027	0.325	305.0	0.367	0.000	293.8	154.385	OK
MH_CF10	FSR: 100 years: +0 %: 15 mins: Winter	23.36 0	20.55 7	21.167	0.610	87.3	1.077	0.000	73.7	40.533	Surcharged
MH_CG22	FSR: 100 years: +0 %: 15 mins: Winter	27.29 0	24.03 5	24.192	0.157	121.0	0.400	0.000	118.1	66.360	OK
MH_CG24	FSR: 100 years: +0 %: 15 mins: Winter	26.87 0	23.37 2	23.611	0.239	113.1	0.270	0.000	108.5	65.467	OK
MH_CG28	FSR: 100 years: +0 %: 15 mins: Winter	26.05 0	22.47 2	22.674	0.202	119.0	0.229	0.000	115.7	94.475	OK
MH_CG34	FSR: 100 years: +0 %: 15 mins: Winter	25.47 0	21.31 3	22.245	0.932	718.3	1.054	0.000	706.5	426.288	Surcharged
MH_CG35	FSR: 100 years: +0 %: 15 mins: Winter	24.93 0	20.95 6	21.453	0.497	706.5	0.562	0.000	689.9	425.155	OK
MH_CG36	FSR: 100 years: +0 %: 15 mins: Winter	27.46 0	24.56 0	25.120	0.560	345.2	1.426	0.000	317.1	159.683	Surcharged
MH_CG37	FSR: 100 years: +0 %: 15 mins: Winter	27.18 0	24.00 0	24.316	0.316	317.1	0.357	0.000	299.5	159.651	OK
MH_CG39	FSR: 100 years: +0 %: 15 mins: Winter	26.40 0	23.00 0	23.538	0.538	291.5	0.608	0.000	288.4	159.763	Surcharged
MH_CG41	FSR: 100 years: +0 %: 15 mins: Winter	25.92 0	22.78 1	23.044	0.263	281.6	0.297	0.000	267.0	159.689	OK
MH_CH38	FSR: 100 years: +0 %: 15 mins: Winter	25.30 0	23.19 6	23.339	0.143	128.7	0.162	0.000	121.1	75.088	OK
MH_CH42	FSR: 100 years: +0 %: 15 mins: Winter	22.77 0	19.97 1	20.175	0.204	131.1	0.230	0.000	121.2	68.184	OK
MH_CH43	FSR: 100 years: +0 %: 15 mins: Winter	21.77 0	20.14 8	20.158	0.010	0.9	0.012	0.000	0.0	0.087	OK
MH_CH40	FSR: 100 years: +0 %: 15 mins: Winter	24.58 0	19.43 3	19.912	0.478	617.9	1.218	0.000	586.4	327.477	OK
MH_CH47	FSR: 100 years: +0 %: 15 mins: Winter	22.99 0	18.92 1	19.349	0.428	562.1	0.484	0.000	467.5	337.980	OK
OUTFALL_H	FSR: 100 years: +0 %: 960 mins: Winter	17.86 2	16.66 2	17.052	0.390	69.7	0.442	0.000	69.7	4136.302	OK
OUTFALL_F	FSR: 100 years: +0 %: 360 mins: Winter	17.77 0	16.57 0	16.816	0.246	25.9	0.279	0.000	25.9	543.126	OK
OUTFALL_G	FSR: 100 years: +0 %: 240 mins: Winter	20.56 3	19.36 3	19.791	0.429	41.5	0.485	0.000	41.5	933.730	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
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Report Details: Type: Junctions Summary Storm Phase: Phase		Ridge:			

MH_CH50	FSR: 100 years: +0 %: 15 mins: Winter	20.83 0	18.03 6	18.528	0.492	981.4	0.557	0.000	964.0	645.416	OK
MH_CH36	FSR: 100 years: +0 %: 240 mins: Winter	25.71 0	23.75 0	24.545	0.795	19.1	0.899	0.000	17.0	428.622	Surcharged
MH_CH37	FSR: 100 years: +0 %: 15 mins: Winter	25.77 0	23.68 1	23.869	0.188	133.7	0.478	0.000	128.7	75.946	OK
MH_CH41	FSR: 100 years: +0 %: 240 mins: Winter	22.61 0	20.18 8	20.588	0.400	7.7	0.453	0.000	7.6	179.145	OK
MH_CH31	FSR: 100 years: +0 %: 360 mins: Winter	22.43 0	19.47 0	20.075	0.605	10.7	0.684	0.000	10.7	404.361	Surcharged
MH_CG19	FSR: 100 years: +0 %: 120 mins: Winter	27.58 0	25.05 4	25.855	0.801	17.7	0.905	0.000	12.4	156.914	Surcharged
MH_CG20	FSR: 100 years: +0 %: 360 mins: Winter	27.43 0	24.60 0	24.661	0.061	12.5	0.069	0.000	12.5	297.895	OK
MH_CG29	FSR: 100 years: +0 %: 120 mins: Winter	25.61 9	23.11 9	24.811	1.692	31.1	1.914	0.000	25.3	271.520	Surcharged
MH_CF2	FSR: 100 years: +0 %: 15 mins: Winter	26.21 0	23.45 3	23.528	0.075	41.4	0.085	0.000	40.9	19.750	OK
MH_CF1	FSR: 100 years: +0 %: 480 mins: Winter	26.15 0	23.54 5	24.495	0.950	1.0	1.074	0.000	0.7	34.417	Surcharged
MH_CG32	FSR: 100 years: +0 %: 15 mins: Winter	25.97 0	21.53 0	22.319	0.789	304.1	3.875	0.000	198.0	187.052	Surcharged
MH_CF13	FSR: 100 years: +0 %: 1440 mins: Winter	21.72 0	19.53 6	20.415	0.879	33.9	0.994	0.000	4.3	619.935	Surcharged
MH_CH45	FSR: 100 years: +0 %: 15 mins: Winter	23.77 0	19.70 2	19.950	0.248	121.2	0.438	0.000	97.6	67.098	OK
MH_CG30	FSR: 100 years: +0 %: 15 mins: Winter	25.99 0	22.28 9	22.512	0.222	115.7	0.566	0.000	107.2	93.120	OK
MH_CG27	FSR: 100 years: +0 %: 15 mins: Winter	26.16 0	22.86 0	23.018	0.158	100.7	0.178	0.000	96.3	64.494	OK
MH_CG26	FSR: 100 years: +0 %: 15 mins: Winter	26.44 0	23.11 3	23.305	0.193	105.1	0.218	0.000	100.7	64.834	OK
MH_CH49	FSR: 100 years: +0 %: 15 mins: Winter	21.51 2	18.22 7	18.883	0.656	1002.8	0.742	0.000	981.4	645.888	OK
MH_CH46	FSR: 100 years: +0 %: 15 mins: Winter	23.07 0	19.10 5	19.571	0.466	586.4	0.527	0.000	553.2	326.316	OK
MH_CH48	FSR: 100 years: +0 %: 15 mins: Winter	22.65 0	18.47 8	19.282	0.804	1038.3	2.783	0.000	1002.8	647.183	Surcharged
MH_CG42	FSR: 100 years: +0 %: 15 mins: Winter	24.23 0	21.62 4	21.861	0.237	267.0	0.268	0.000	242.9	159.452	OK
MH_CG31	FSR: 100 years: +0 %: 30 mins: Winter	26.08 0	22.16 3	22.383	0.220	108.4	0.249	0.000	108.5	160.352	OK
MH_CG33	FSR: 100 years: +0 %: 360 mins: Winter	25.84 0	24.21 8	24.776	0.558	7.1	0.631	0.000	7.1	267.641	Surcharged
MH_CF6	FSR: 100 years: +0 %: 15 mins: Winter	24.31 0	21.08 9	21.303	0.214	179.5	0.242	0.000	172.6	93.054	OK
MH_CF5	FSR: 100 years: +0 %: 15 mins: Winter	24.48 0	21.18 9	21.476	0.287	187.9	0.325	0.000	179.5	93.204	OK
MH_CG25	FSR: 100 years: +0 %: 15 mins: Winter	26.64 0	23.29 8	23.491	0.193	108.5	0.218	0.000	105.1	65.194	OK
MH_CG23	FSR: 100 years: +0 %: 15 mins: Winter	27.11 0	23.49 9	23.746	0.247	118.1	0.279	0.000	113.1	65.920	OK
MH_CG21	FSR: 100 years: +0 %: 30 mins: Winter	27.39 0	24.42 4	24.475	0.051	12.5	0.058	0.000	12.5	35.287	OK
MH_CG40	FSR: 100 years: +0 %: 15 mins: Winter	26.26 0	22.90 0	23.318	0.418	288.4	0.472	0.000	281.6	159.692	OK
MH_CG38	FSR: 100 years: +0 %: 15 mins: Winter	26.51 0	23.11 0	23.743	0.633	299.5	0.716	0.000	291.5	159.795	Surcharged
MH_CH39	FSR: 100 years: +0 %: 15 mins: Winter	24.97 0	21.28 5	21.428	0.143	121.1	0.161	0.000	117.3	74.745	OK
MH_CH44	FSR: 100 years: +0 %: 15 mins: Winter	22.24 0	20.11 5	20.173	0.058	3.3	0.065	0.000	0.3	0.521	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023		
	Designed by: BT	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Ridge:		

RIDGE



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
MH_CF14	FSR: 100 years: +45 %: 15 mins: Winter	22.810	20.096	20.368	0.272	135.6	0.307	0.000	130.6	62.616	OK
MH_CF16	FSR: 100 years: +45 %: 15 mins: Winter	21.570	19.557	19.876	0.319	372.4	0.361	0.000	361.9	182.461	OK
MH_CF18	FSR: 100 years: +45 %: 15 mins: Winter	20.810	18.707	19.151	0.444	554.9	0.502	0.000	530.4	271.683	OK
MH_CF17	FSR: 100 years: +45 %: 15 mins: Winter	21.930	20.000	20.257	0.257	144.6	0.291	0.000	140.6	66.486	OK
MH_CF15	FSR: 100 years: +45 %: 15 mins: Winter	21.720	19.756	20.078	0.322	130.6	0.364	0.000	116.0	62.469	OK
MH_CF12	FSR: 100 years: +45 %: 1440 mins: Winter	22.440	19.979	20.784	0.805	36.0	2.788	0.000	35.4	1209.897	Surcharged
MH_CF11	FSR: 100 years: +45 %: 15 mins: Winter	22.920	20.349	22.017	1.668	490.5	1.887	0.000	479.6	233.036	Surcharged
MH_CF9	FSR: 100 years: +45 %: 1440 mins: Winter	23.510	20.118	20.784	0.666	31.6	0.753	0.000	31.2	1151.145	Surcharged
MH_CF8	FSR: 100 years: +45 %: 15 mins: Winter	23.930	20.401	20.906	0.504	543.7	0.570	0.000	521.3	273.550	OK
MH_CF4	FSR: 100 years: +45 %: 15 mins: Winter	24.630	21.257	21.671	0.414	285.7	0.468	0.000	277.2	135.033	OK
MH_CF3	FSR: 100 years: +45 %: 15 mins: Winter	25.120	22.567	22.767	0.200	191.7	0.226	0.000	186.5	89.278	OK
MH_CF7	FSR: 100 years: +45 %: 15 mins: Winter	24.210	20.702	21.133	0.431	451.7	0.488	0.000	435.3	223.651	OK
MH_CF10	FSR: 100 years: +45 %: 15 mins: Winter	23.360	20.557	22.092	1.535	127.1	2.712	0.000	112.4	58.758	Surcharged
MH_CG22	FSR: 100 years: +45 %: 15 mins: Winter	27.290	24.035	24.234	0.199	172.6	0.508	0.000	168.5	90.100	OK
MH_CG24	FSR: 100 years: +45 %: 15 mins: Winter	26.870	23.372	23.674	0.301	162.5	0.341	0.000	157.6	89.183	OK
MH_CG28	FSR: 100 years: +45 %: 15 mins: Winter	26.050	22.472	22.772	0.300	166.6	0.339	0.000	114.4	119.628	OK
MH_CG34	FSR: 100 years: +45 %: 15 mins: Winter	25.470	21.313	22.857	1.544	922.7	1.747	0.000	918.2	600.674	Surcharged
MH_CG35	FSR: 100 years: +45 %: 960 mins: Winter	24.930	20.956	21.657	0.701	127.3	0.793	0.000	126.5	4185.894	Surcharged
MH_CG36	FSR: 100 years: +45 %: 15 mins: Winter	27.460	24.560	27.195	2.635	502.6	6.707	0.000	440.0	230.918	Flood Risk
MH_CG37	FSR: 100 years: +45 %: 15 mins: Winter	27.180	24.000	25.777	1.777	440.0	2.010	0.000	418.0	231.533	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
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MH_CG39	FSR: 100 years: +45 %: 15 mins: Winter	26.40 0	23.00 0	24.104	1.104	407.1	1.248	0.000	400.1	231.816	Surcharged
MH_CG41	FSR: 100 years: +45 %: 15 mins: Winter	25.92 0	22.78 1	23.122	0.341	395.4	0.386	0.000	376.6	231.737	OK
MH_CH38	FSR: 100 years: +45 %: 15 mins: Winter	25.30 0	23.19 6	23.372	0.176	184.3	0.199	0.000	176.7	101.388	OK
MH_CH42	FSR: 100 years: +45 %: 30 mins: Winter	22.77 0	19.97 1	20.295	0.324	132.2	0.366	0.000	122.3	139.831	OK
MH_CH43	FSR: 100 years: +45 %: 30 mins: Winter	21.77 0	20.14 8	20.311	0.163	2.4	0.184	0.000	0.2	0.844	OK
MH_CH40	FSR: 100 years: +45 %: 15 mins: Winter	24.58 0	19.43 3	20.470	1.037	759.7	2.639	0.000	598.9	472.519	Surcharged
MH_CH47	FSR: 100 years: +45 %: 15 mins: Winter	22.99 0	18.92 1	20.274	1.353	638.6	1.530	0.000	657.7	475.033	Surcharged
OUTFALL_H	FSR: 100 years: +45 %: 960 mins: Summer	17.86 2	16.66 2	17.145	0.483	70.7	0.546	0.000	70.7	5273.240	OK
OUTFALL_F	FSR: 100 years: +45 %: 360 mins: Winter	17.77 0	16.57 0	16.940	0.370	26.9	0.419	0.000	26.9	745.967	OK
OUTFALL_G	FSR: 100 years: +45 %: 120 mins: Summer	20.56 3	19.36 3	19.781	0.418	41.5	0.473	0.000	41.4	456.265	OK
MH_CH50	FSR: 100 years: +45 %: 15 mins: Winter	20.83 0	18.03 6	18.648	0.612	1336.3	0.692	0.000	1308.1	918.780	OK
MH_CH36	FSR: 100 years: +45 %: 360 mins: Winter	25.71 0	23.75 0	24.814	1.063	18.3	1.203	0.000	17.0	664.048	Surcharged
MH_CH37	FSR: 100 years: +45 %: 15 mins: Winter	25.77 0	23.68 1	23.909	0.228	190.3	0.580	0.000	184.3	102.325	OK
MH_CH41	FSR: 100 years: +45 %: 360 mins: Winter	22.61 0	20.18 8	20.725	0.537	8.0	0.607	0.000	7.7	287.582	Surcharged
MH_CH31	FSR: 100 years: +45 %: 480 mins: Winter	22.43 0	19.47 0	20.364	0.894	10.8	1.012	0.000	10.7	555.312	Surcharged
MH_CG19	FSR: 100 years: +45 %: 120 mins: Winter	27.58 0	25.05 4	27.208	2.153	15.2	2.436	0.000	12.4	156.813	Surcharged
MH_CG20	FSR: 100 years: +45 %: 30 mins: Winter	27.43 0	24.60 0	24.662	0.062	12.5	0.070	0.000	12.4	36.395	OK
MH_CG29	FSR: 100 years: +45 %: 120 mins: Winter	25.61 9	23.11 9	25.087	1.968	27.4	2.226	0.000	24.2	289.382	Surcharged
MH_CF2	FSR: 100 years: +45 %: 15 mins: Winter	26.21 0	23.45 3	23.543	0.090	60.1	0.102	0.000	59.3	28.342	OK
MH_CF1	FSR: 100 years: +45 %: 480 mins: Winter	26.15 0	23.54 5	24.766	1.221	1.2	1.380	0.000	0.8	38.329	Surcharged
MH_CG32	FSR: 100 years: +45 %: 15 mins: Winter	25.97 0	21.53 0	22.884	1.354	326.7	6.648	0.000	426.6	257.735	Surcharged
MH_CF13	FSR: 100 years: +45 %: 1440 mins: Winter	21.72 0	19.53 6	20.784	1.248	5.9	1.411	0.000	4.3	659.407	Surcharged
MH_CH45	FSR: 100 years: +45 %: 15 mins: Winter	23.77 0	19.70 2	20.395	0.692	357.7	1.224	0.000	265.7	108.273	Surcharged

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Report Details: Type: Junctions Summary Storm Phase: Phase		Ridge:			

MH_CG30	FSR: 100 years: +45 %: 15 mins: Winter	25.99 0	22.28 9	22.920	0.630	120.6	1.604	0.000	163.1	119.606	Surcharged
MH_CG27	FSR: 100 years: +45 %: 15 mins: Winter	26.16 0	22.86 0	23.061	0.200	149.2	0.227	0.000	144.4	88.421	OK
MH_CG26	FSR: 100 years: +45 %: 15 mins: Winter	26.44 0	23.11 3	23.356	0.243	153.9	0.275	0.000	149.2	88.716	OK
MH_CH49	FSR: 100 years: +45 %: 15 mins: Winter	21.51 2	18.22 7	19.343	1.117	1342.1	1.263	0.000	1336.3	919.133	Surcharged
MH_CH46	FSR: 100 years: +45 %: 15 mins: Winter	23.07 0	19.10 5	20.400	1.296	598.9	1.465	0.000	625.4	463.899	Surcharged
MH_CH48	FSR: 100 years: +45 %: 15 mins: Winter	22.65 0	18.47 8	20.052	1.574	1371.3	5.451	0.000	1342.1	920.385	Surcharged
MH_CG42	FSR: 100 years: +45 %: 15 mins: Winter	24.23 0	21.62 4	21.922	0.298	376.6	0.338	0.000	339.9	231.490	OK
MH_CG31	FSR: 100 years: +45 %: 15 mins: Winter	26.08 0	22.16 3	22.948	0.785	163.1	0.887	0.000	242.8	124.248	Surcharged
MH_CG33	FSR: 100 years: +45 %: 480 mins: Winter	25.84 0	24.21 8	25.027	0.809	7.2	0.914	0.000	7.1	366.707	Surcharged
MH_CF6	FSR: 100 years: +45 %: 15 mins: Winter	24.31 0	21.08 9	21.359	0.270	267.6	0.306	0.000	258.9	134.725	OK
MH_CF5	FSR: 100 years: +45 %: 15 mins: Winter	24.48 0	21.18 9	21.550	0.361	277.2	0.408	0.000	267.6	134.888	OK
MH_CG25	FSR: 100 years: +45 %: 15 mins: Winter	26.64 0	23.29 8	23.544	0.246	157.6	0.278	0.000	153.9	88.916	OK
MH_CG23	FSR: 100 years: +45 %: 15 mins: Winter	27.11 0	23.49 9	23.815	0.316	168.5	0.358	0.000	162.5	89.641	OK
MH_CG21	FSR: 100 years: +45 %: 240 mins: Summer	27.39 0	24.42 4	24.475	0.051	12.5	0.058	0.000	12.5	318.311	OK
MH_CG40	FSR: 100 years: +45 %: 15 mins: Winter	26.26 0	22.90 0	23.713	0.813	400.1	0.919	0.000	395.4	231.754	Surcharged
MH_CG38	FSR: 100 years: +45 %: 15 mins: Winter	26.51 0	23.11 0	24.507	1.397	418.0	1.580	0.000	407.1	231.842	Surcharged
MH_CH39	FSR: 100 years: +45 %: 15 mins: Winter	24.97 0	21.28 5	21.461	0.176	176.7	0.200	0.000	172.9	100.849	OK
MH_CH44	FSR: 100 years: +45 %: 30 mins: Winter	22.24 0	20.11 5	20.302	0.187	20.2	0.211	0.000	0.5	3.557	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Ridge:			



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. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond_F	FSR: 1 years: +0 %: 960 mins: Winter	17.973	17.973	0.160	0.160	15.2	183.362	0.000	10.0	568.308	244	81.627	OK
Swale	FSR: 1 years: +0 %: 1440 mins: Winter	19.910	19.910	0.081	0.349	18.8	390.252	0.000	4.3	621.526	791	84.655	OK
POND_G	FSR: 1 years: +0 %: 960 mins: Winter	20.991	20.991	0.259	0.259	45.4	501.062	0.000	27.9	1024.926	234	78.602	OK
POND H	FSR: 1 years: +0 %: 960 mins: Winter	17.936	17.936	0.280	0.280	65.5	831.431	0.000	37.7	1494.769	295	80.130	OK
GG_H2	FSR: 1 years: +0 %: 240 mins: Winter	24.216	24.216	0.116	0.116	47.1	154.028	0.000	19.5	243.856	82	85.574	OK
GG_H4	FSR: 1 years: +0 %: 240 mins: Winter	20.422	20.422	0.067	0.067	20.0	73.774	0.000	7.1	90.551	137	83.239	OK
GG_H5	FSR: 1 years: +0 %: 240 mins: Winter	19.728	19.728	0.128	0.128	33.9	120.407	0.000	9.2	176.209	124	84.015	OK
GG_G6	FSR: 1 years: +0 %: 60 mins: Winter	25.468	25.468	0.108	0.108	37.5	34.003	0.000	17.0	50.481	32	86.522	OK
GG_G5	FSR: 1 years: +0 %: 60 mins: Winter	24.457	24.457	0.097	0.097	66.1	58.303	0.000	23.7	90.930	36	87.890	OK
GG_F8	FSR: 1 years: +0 %: 360 mins: Winter	24.141	24.141	0.121	0.121	2.5	12.080	0.000	1.3	20.281	114	85.013	OK
GG_G5 (1)	FSR: 1 years: +0 %: 240 mins: Winter	24.474	24.474	0.114	0.114	24.1	89.712	0.000	6.2	118.173	130	85.722	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Ridge:			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond_F	FSR: 30 years: +0 %: 480 mins: Winter	18.060	18.060	0.247	0.247	42.7	293.666	0.000	20.7	533.082	187	70.574	OK
Swale	FSR: 30 years: +0 %: 1440 mins: Winter	20.234	20.234	0.405	0.673	37.1	979.110	0.000	31.6	694.165	455	61.500	OK
POND_G	FSR: 30 years: +0 %: 480 mins: Winter	21.227	21.227	0.494	0.494	120.1	1019.288	0.000	41.5	1574.298	244	56.471	OK
POND H	FSR: 30 years: +0 %: 960 mins: Winter	18.073	18.073	0.417	0.417	107.7	1268.509	0.000	67.1	3247.145	240	69.684	OK
GG_H2	FSR: 30 years: +0 %: 240 mins: Winter	24.419	24.419	0.319	0.319	105.0	425.231	0.000	19.7	418.482	204	60.173	OK
GG_H4	FSR: 30 years: +0 %: 240 mins: Winter	20.525	20.525	0.170	0.170	44.5	186.683	0.000	7.9	171.059	208	57.588	OK
GG_H5	FSR: 30 years: +0 %: 240 mins: Winter	19.944	19.944	0.344	0.344	75.5	323.361	0.000	10.5	258.028	287	57.073	OK
GG_G6	FSR: 30 years: +0 %: 120 mins: Winter	25.703	25.703	0.343	0.343	59.2	107.379	0.000	18.0	154.380	71	57.439	OK
GG_G5	FSR: 30 years: +0 %: 120 mins: Winter	24.676	24.676	0.316	0.316	104.5	189.638	0.000	31.6	278.654	59	60.611	OK
GG_F8	FSR: 30 years: +0 %: 360 mins: Winter	24.364	24.364	0.344	0.344	5.4	34.331	0.000	1.1	25.373	334	57.408	OK
GG_G5 (1)	FSR: 30 years: +0 %: 240 mins: Winter	24.661	24.661	0.301	0.301	53.7	236.192	0.000	7.0	171.320	309	62.409	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Ridge:			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond_F	FSR: 100 years: +0 %: 360 mins: Winter	18.111	18.111	0.297	0.297	65.6	361.355	0.000	25.9	543.565	179	63.791	OK
Swale	FSR: 100 years: +0 %: 1440 mins: Winter	20.415	20.415	0.586	0.854	46.6	1307.805	0.000	33.9	611.335	573	48.575	OK
POND_G	FSR: 100 years: +0 %: 960 mins: Winter	21.357	21.357	0.625	0.625	102.0	1334.288	0.000	41.5	2767.455	276	43.019	OK
POND H	FSR: 100 years: +0 %: 960 mins: Winter	18.158	18.158	0.502	0.502	129.0	1550.895	0.000	69.7	4136.890	260	62.935	OK
GG_H2	FSR: 100 years: +0 %: 240 mins: Winter	24.545	24.545	0.445	0.445	136.5	593.137	0.000	19.1	435.176	297	44.446	OK
GG_H4	FSR: 100 years: +0 %: 240 mins: Winter	20.589	20.589	0.234	0.234	57.9	256.544	0.000	7.7	181.880	297	41.716	OK
GG_H5	FSR: 100 years: +0 %: 360 mins: Winter	20.075	20.075	0.475	0.475	72.6	446.909	0.000	10.7	405.323	365	40.671	OK
GG_G6	FSR: 100 years: +0 %: 120 mins: Winter	25.855	25.855	0.495	0.495	77.8	155.327	0.000	17.7	161.331	87	38.434	OK
GG_G5	FSR: 100 years: +0 %: 120 mins: Winter	24.820	24.820	0.460	0.460	137.3	276.695	0.000	31.1	274.298	92	42.528	OK
GG_F8	FSR: 100 years: +0 %: 480 mins: Winter	24.496	24.496	0.476	0.476	5.6	47.434	0.000	1.0	35.599	508	41.152	OK
GG_G5 (1)	FSR: 100 years: +0 %: 360 mins: Winter	24.777	24.777	0.417	0.417	51.6	327.175	0.000	7.1	269.014	398	47.928	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Ridge:			



**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. Residual Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond_F	FSR: 100 years: +45 %: 360 mins: Winter	18.228	18.228	0.415	0.415	93.1	529.083	0.000	26.9	746.513	207	46.984	OK
Swale	FSR: 100 years: +45 %: 1440 mins: Winter	20.784	20.784	0.955	1.223	66.6	1977.956	0.000	5.9	660.149	3370	22.223	OK
POND_G	FSR: 100 years: +45 %: 960 mins: Winter	21.656	21.656	0.924	0.924	126.5	2127.053	0.000	41.5	3787.846	437	9.164	OK
POND H	FSR: 100 years: +45 %: 960 mins: Winter	18.364	18.364	0.709	0.709	173.0	2270.344	0.000	70.7	5799.621	293	45.741	OK
GG_H2	FSR: 100 years: +45 %: 360 mins: Winter	24.814	24.814	0.714	0.714	146.3	951.128	0.000	18.3	671.578	473	10.917	OK
GG_H4	FSR: 100 years: +45 %: 360 mins: Winter	20.726	20.726	0.371	0.371	62.0	406.538	0.000	8.0	291.156	440	7.639	OK
GG_H5	FSR: 100 years: +45 %: 480 mins: Winter	20.365	20.365	0.765	0.765	84.9	719.095	0.000	10.8	556.675	575	4.537	OK
GG_G6	FSR: 100 years: +45 %: 120 mins: Winter	27.207	27.207	1.847	1.847	112.8	251.905	0.000	15.2	162.020	161	0.155	OK
GG_G5	FSR: 100 years: +45 %: 120 mins: Winter	25.098	25.098	0.738	0.738	199.0	443.435	0.000	27.4	292.480	168	7.895	OK
GG_F8	FSR: 100 years: +45 %: 480 mins: Winter	24.766	24.766	0.746	0.746	8.2	74.430	0.000	1.2	39.798	677	7.660	OK
GG_G5 (1)	FSR: 100 years: +45 %: 480 mins: Winter	25.028	25.028	0.668	0.668	60.3	523.436	0.000	7.2	368.339	627	16.692	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			



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
SW3.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF14	MH_CF15	22.810	20.202	0.113	13.613	1.0	0.17	27.9	OK
SW3.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF15	MH_CF16	21.720	19.876	0.114	13.505	0.8	0.2	23.4	OK
SW3.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF16	MH_CF18	21.570	19.673	0.136	39.553	1.9	0.14	76.4	OK
SW4.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF17	MH_CF16	21.930	20.101	0.099	14.472	1.3	0.15	29.3	OK
SW3.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF18	Pond_F	20.810	18.863	0.102	58.910	4.2	0.19	115.2	OK
SW2.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF12	Swale	22.440	20.235	0.243	68.668	1.2	0.31	129.4	OK
SW1.009	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF9	Swale	23.510	20.268	0.141	59.421	2.0	0.11	102.4	OK
SW2.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF11	MH_CF12	22.920	20.571	0.214	50.489	1.3	0.43	95.4	OK
SW1.008	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF8	MH_CF9	23.930	20.590	0.169	59.529	1.6	0.19	107.4	OK
SW1.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF3	MH_CF4	25.120	22.655	0.087	19.778	1.8	0.08	38.7	OK
SW1.007	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF7	MH_CF8	24.210	20.856	0.172	48.751	1.4	0.13	90.2	OK
SW2.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF10	MH_CF11	23.360	20.659	0.162	12.737	0.5	0.12	26.0	OK
SW5.014	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG34	MH_CG35	25.470	21.597	0.267	156.318	1.8	0.39	220.3	OK
SW5.015	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG35	POND_G	24.930	21.206	0.149	154.918	3.9	0.31	210.5	OK
SW8.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG36	MH_CG37	27.460	24.759	0.178	50.386	1.8	0.36	103.2	OK
SW 9.011	FSR: 1 years: +0 %: 960 mins: Winter	Pipe	POND H	OUTFALL_H	19.472	17.936	0.140	1494.712	0.7	0.02	37.7	OK
SW1.012	FSR: 1 years: +0 %: 960 mins: Winter	Pipe	Pond_F	OUTFALL_F	19.119	17.973	0.080	568.251	0.7	0.04	10.0	OK
SW5.016	FSR: 1 years: +0 %: 960 mins: Winter	Pipe	POND_G	OUTFALL_G	22.178	20.991	0.130	1024.894	0.7	0.03	27.9	OK
SW 9.010	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CH50	POND H	20.830	18.287	0.163	318.143	4.1	0.19	290.4	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023			RIDGE					
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				Ridge:								

SW9.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 37	MH_CH 38	25.770	23.779	0.086	31.824	1.5	0.05	36.2	OK
SW9.001	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	MH_CH 36	MH_CH 37	25.710	24.213	0.076	243.413	0.9	0.03	16.0	OK
SW9.000	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	GG_H2	MH_CH 36	27.826	24.183	0.256	42.674	0.4	0.04	26.4	OK
SW10.000	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	GG_H4	MH_CH 41	22.618	20.417	0.143	54.853	0.2	0.04	7.8	OK
SW 12.001	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	MH_CH 31	MH_CH 47	22.430	19.727	0.087	176.032	0.8	0.02	9.1	OK
SW 12.000	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	GG_H5	MH_CH 31	22.085	19.728	0.192	176.209	0.3	0.02	9.2	OK
SW5.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	GG_G6	MH_CG 19	27.877	25.440	0.227	16.025	0.5	0.08	20.8	OK
SW5.001	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH_CG 19	MH_CG 20	27.580	25.465	0.059	49.911	1.0	0.04	11.8	OK
SW6.000	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	GG_G5	MH_CG 29	26.056	24.448	0.300	80.745	0.6	0.14	36.8	OK
SW6.001	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH_CG 29	MH_CG 28	25.619	24.438	0.090	90.700	1.7	0.08	25.3	Surcharged
SW1.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF 2	MH_CF3	26.210	23.496	0.065	6.591	0.9	0.02	13.0	OK
SW1.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	GG_F8	MH_CF1	26.085	24.075	0.141	1.512	0.5	0.26	3.8	OK
SW1.001	FSR: 1 years: +0 %: 360 mins: Winter	Pipe	MH_CF 1	MH_CF2	26.150	24.141	0.017	20.202	0.5	0	0.6	Surcharged
SW5.013	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 32	MH_CG 34	25.970	21.710	0.221	153.197	1.1	0.19	92.1	OK
SW1.010	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Swale	MH_CF1 3	21.381	19.622	0.176	3.987	0.1	0.03	4.8	OK
SW1.011	FSR: 1 years: +0 %: 1440 mins: Winter	Pipe	MH_CF 13	Pond_F	21.720	19.910	0.093	621.205	0.7	0.01	4.3	OK
SW10.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 42	MH_CH 45	22.770	20.079	0.104	20.952	1.2	0.07	38.5	OK
SW5.010	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 28	MH_CG 30	26.050	22.602	0.140	105.354	1.1	0.09	54.8	OK
SW5.009	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 27	MH_CG 28	26.160	22.942	0.079	48.299	1.6	0.06	29.8	OK
SW5.008	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 26	MH_CG 27	26.440	23.213	0.091	48.583	1.3	0.1	30.4	OK
SW10.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 45	MH_CH 40	23.770	19.801	0.166	20.641	0.6	0.06	35.6	OK
SW 9.009	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CH 49	MH_CH 50	21.512	18.525	0.274	318.667	2.0	0.29	290.7	OK
SW9.005	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 40	MH_CH 46	24.580	19.666	0.231	109.270	1.6	0.18	183.6	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023								
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SW9.006	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 46	MH_CH 47	23.070	19.334	0.216	108.354	1.6	0.17	173.1	OK
SW10.001	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	MH_CH 41	MH_CH 42	22.610	20.417	0.053	90.206	0.8	0.02	6.6	OK
SW 9.007	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 47	MH_CH 48	22.990	19.123	0.261	116.184	1.2	0.16	162.8	OK
SW 9.008	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 48	MH_CH 49	22.650	18.797	0.311	212.234	1.8	0.3	305.4	OK
SW8.005	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 41	MH_CG 42	25.920	22.909	0.122	50.020	2.2	0.16	78.0	OK
SW8.006	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 42	MH_CH 48	24.230	21.741	0.116	66.864	2.2	0.14	72.7	OK
SW5.011	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	MH_CG 30	MH_CG 31	25.990	22.439	0.149	148.502	1.0	0.12	53.4	OK
SW5.012	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 31	MH_CG 32	26.080	22.311	0.146	50.129	1.0	0.13	53.0	OK
SW7.000	FSR: 1 years: +0 %: 60 mins: Summer	Pipe	GG_G5 (1)	MH_CG 33	26.867	24.442	0.151	31.611	0.3	0.09	7.3	OK
SW7.001	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	MH_CG 33	MH_CG 32	25.840	24.472	0.054	117.877	0.7	0.07	6.2	OK
SW1.006	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF 6	MH_CF7	24.310	21.194	0.130	29.491	1.2	0.07	52.7	OK
SW1.004	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF 4	MH_CF5	24.630	21.425	0.161	29.686	1.0	0.15	58.5	OK
SW1.005	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CF 5	MH_CF6	24.480	21.343	0.129	29.596	1.2	0.14	55.3	OK
SW5.006	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 24	MH_CG 25	26.870	23.492	0.107	49.129	1.1	0.15	31.4	OK
SW5.007	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	MH_CG 25	MH_CG 26	26.640	23.393	0.097	48.898	1.2	0.09	31.0	OK
SW5.004	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 22	MH_CG 23	27.290	24.112	0.098	27.705	1.3	0.07	33.9	OK
SW5.005	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 23	MH_CG 24	27.110	23.617	0.119	27.293	1.0	0.13	32.2	OK
SW5.002	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH_CG 20	MH_CG 21	27.430	24.660	0.055	49.778	1.1	0.03	11.8	OK
SW5.003	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	MH_CG 21	MH_CG 22	27.390	24.474	0.059	49.696	1.3	0.02	11.8	OK
SW8.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 39	MH_CG 40	26.400	23.200	0.195	50.100	1.3	0.32	85.1	OK
SW8.004	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 40	MH_CG 41	26.260	23.090	0.159	50.049	1.6	0.34	81.9	OK
SW8.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 37	MH_CG 38	27.180	24.157	0.180	50.251	1.6	0.26	95.8	OK
SW8.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CG 38	MH_CG 39	26.510	23.313	0.202	50.139	1.3	0.32	88.1	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Ridge:			

SW9.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 38	MH_CH 39	25.300	23.270	0.073	31.149	1.7	0.03	33.7	OK
SW9.004	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	MH_CH 39	MH_CH 40	24.970	21.358	0.072	30.827	1.7	0.03	32.5	OK
SW11.000	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	MH_CH 43	MH_CH 44	21.770	20.148	0.000	0.000	0.0	0	0.0	OK
SW11.001	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	MH_CH 44	MH_CH 42	22.240	20.115	0.053	0.000	0.0	0	0.0	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SW3.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF14	MH_CF15	22.810	20.274	0.191	33.360	1.2	0.41	69.1	OK
SW3.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF15	MH_CF16	21.720	19.961	0.191	33.217	1.1	0.52	60.3	OK
SW3.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF16	MH_CF18	21.570	19.757	0.231	97.157	2.3	0.36	191.8	OK
SW4.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF17	MH_CF16	21.930	20.167	0.162	35.509	1.6	0.37	72.9	OK
SW3.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF18	Pond_F	20.810	18.970	0.173	144.648	5.1	0.47	288.2	OK
SW2.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF12	Swale	22.440	20.413	0.400	168.669	1.6	0.77	316.2	OK
SW1.009	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF9	Swale	23.510	20.376	0.237	145.644	2.5	0.28	262.9	OK
SW2.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF11	MH_CF12	22.920	20.776	0.382	123.989	1.6	1.03	228.2	OK
SW1.008	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF8	MH_CF9	23.930	20.722	0.289	145.792	2.0	0.48	272.8	OK
SW1.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF3	MH_CF4	25.120	22.709	0.139	47.832	2.3	0.2	96.3	OK
SW1.007	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF7	MH_CF8	24.210	20.974	0.296	119.252	1.6	0.32	227.5	OK
SW2.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF10	MH_CF11	23.360	20.802	0.336	31.237	0.5	0.25	54.7	OK
SW5.014	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG34	MH_CG35	25.470	21.866	0.487	337.923	2.3	1	561.7	OK
SW5.015	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG35	POND_G	24.930	21.378	0.253	336.683	4.8	0.79	545.6	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023			RIDGE					
				Designed by: BT	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				Ridge:								

SW8.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 36	MH_CG 37	27.460	24.921	0.320	123.542	2.1	0.88	253.8	OK
SW 9.011	FSR: 30 years: +0 %: 960 mins: Winter	Pipe	POND H	OUTFAL L_H	19.472	18.073	0.205	3247.063	0.7	0.04	67.1	OK
SW1.012	FSR: 30 years: +0 %: 480 mins: Winter	Pipe	Pond_F	OUTFAL L_F	19.119	18.060	0.124	533.015	0.7	0.09	20.7	OK
SW5.016	FSR: 30 years: +0 %: 480 mins: Winter	Pipe	POND_ G	OUTFAL L_G	22.178	21.227	0.242	1574.131	0.7	0.04	41.5	OK
SW 9.010	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 50	POND H	20.830	18.462	0.264	502.774	5.4	0.49	752.5	OK
SW9.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 37	MH_CH 38	25.770	23.843	0.142	62.136	1.9	0.14	96.4	OK
SW9.001	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	MH_CH 36	MH_CH 37	25.710	24.419	0.086	413.056	0.9	0.03	16.9	Surcharged
SW9.000	FSR: 30 years: +0 %: 60 mins: Summer	Pipe	GG_H2	MH_CH 36	27.826	24.336	0.410	101.009	0.3	0.06	38.7	OK
SW10.000	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	GG_H4	MH_CH 41	22.618	20.468	0.196	20.337	0.4	0.07	13.9	OK
SW 12.001	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	MH_CH 31	MH_CH 47	22.430	19.944	0.112	257.101	0.7	0.02	10.5	Surcharged
SW 12.000	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	GG_H5	MH_CH 31	22.085	19.944	0.409	258.028	0.3	0.03	10.5	OK
SW5.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	GG_G6	MH_CG 19	27.877	25.582	0.373	20.235	0.5	0.16	42.6	OK
SW5.001	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	MH_CG 19	MH_CG 20	27.580	25.702	0.061	150.878	1.0	0.04	12.4	Surcharged
SW6.000	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	GG_G5	MH_CG 29	26.056	24.593	0.300	67.330	0.7	0.17	46.6	OK
SW6.001	FSR: 30 years: +0 %: 480 mins: Winter	Pipe	MH_CG 29	MH_CG 28	25.619	24.511	0.086	438.821	1.6	0.08	25.3	Surcharged
SW1.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF 2	MH_CF3	26.210	23.519	0.104	15.376	1.1	0.05	31.6	OK
SW1.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	GG_F8	MH_CF1	26.085	24.172	0.150	1.703	0.6	0.49	7.2	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023			RIDGE					
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				Ridge:								

SW1.001	FSR: 30 years: +0 %: 360 mins: Winter	Pipe	MH_CF 1	MH_CF2	26.150	24.364	0.021	24.265	0.5	0	0.6	Surch arged
SW5.013	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 32	MH_CG 34	25.970	21.911	0.467	153.630	1.1	0.41	198.2	OK
SW1.010	FSR: 30 years: +0 %: 1440 mins: Winter	Pipe	Swale	MH_CF1 3	21.381	20.100	0.450	669.171	0.2	0.17	31.6	Surch arged
SW1.011	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	MH_CF 13	Pond_F	21.720	20.045	0.127	53.065	0.6	0.01	4.3	Surch arged
SW10.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 42	MH_CH 45	22.770	20.145	0.172	53.372	1.4	0.16	94.1	OK
SW5.010	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	MH_CG 28	MH_CG 30	26.050	22.646	0.187	148.666	1.2	0.15	91.4	OK
SW5.009	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 27	MH_CG 28	26.160	22.993	0.125	52.181	2.0	0.15	71.1	OK
SW5.008	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 26	MH_CG 27	26.440	23.275	0.147	52.515	1.6	0.24	74.4	OK
SW10.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 45	MH_CH 40	23.770	19.873	0.285	52.778	0.7	0.14	78.8	OK
SW 9.009	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 49	MH_CH 50	21.512	18.775	0.487	503.307	2.5	0.76	769.9	OK
SW9.005	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 40	MH_CH 46	24.580	19.833	0.396	256.894	1.9	0.45	453.7	OK
SW9.006	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 46	MH_CH 47	23.070	19.498	0.371	255.754	2.0	0.43	435.6	OK
SW10.001	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	MH_CH 41	MH_CH 42	22.610	20.524	0.066	168.926	0.9	0.02	7.3	OK
SW 9.007	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 47	MH_CH 48	22.990	19.270	0.480	266.312	1.4	0.42	419.7	OK
SW 9.008	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 48	MH_CH 49	22.650	19.088	0.580	504.616	2.2	0.79	798.6	OK
SW8.005	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 41	MH_CG 42	25.920	22.999	0.209	123.090	2.8	0.42	201.0	OK
SW8.006	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 42	MH_CH 48	24.230	21.824	0.194	122.870	2.8	0.36	186.0	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				BT								

SW5.011	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	MH_CG 30	MH_CG 31	25.990	22.490	0.200	147.292	1.1	0.21	91.4	OK
SW5.012	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	MH_CG 31	MH_CG 32	26.080	22.363	0.195	144.859	1.1	0.22	91.5	OK
SW7.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	GG_G5 (1)	MH_CG 33	26.867	24.508	0.218	9.231	0.4	0.14	12.2	OK
SW7.001	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	MH_CG 33	MH_CG 32	25.840	24.660	0.057	169.927	0.7	0.08	7.0	Surcharged
SW1.006	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF 6	MH_CF7	24.310	21.271	0.227	71.932	1.4	0.17	134.2	OK
SW1.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF 4	MH_CF5	24.630	21.535	0.264	72.183	1.2	0.37	145.9	OK
SW1.005	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CF 5	MH_CF6	24.480	21.438	0.215	72.069	1.5	0.35	140.0	OK
SW5.006	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 24	MH_CG 25	26.870	23.574	0.181	53.140	1.3	0.38	81.0	OK
SW5.007	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 25	MH_CG 26	26.640	23.459	0.162	52.873	1.5	0.22	78.1	OK
SW5.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 22	MH_CG 23	27.290	24.168	0.170	54.018	1.6	0.17	90.3	OK
SW5.005	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 23	MH_CG 24	27.110	23.706	0.205	53.585	1.2	0.35	85.4	OK
SW5.002	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	MH_CG 20	MH_CG 21	27.430	24.661	0.056	150.450	1.1	0.04	12.4	OK
SW5.003	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	MH_CG 21	MH_CG 22	27.390	24.475	0.067	150.224	1.3	0.03	12.4	OK
SW8.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 39	MH_CG 40	26.400	23.372	0.350	123.177	1.6	0.81	213.9	OK
SW8.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 40	MH_CG 41	26.260	23.228	0.273	123.098	2.1	0.87	208.2	OK
SW8.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 37	MH_CG 38	27.180	24.278	0.336	123.266	1.9	0.63	236.9	OK
SW8.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CG 38	MH_CG 39	26.510	23.505	0.383	123.216	1.5	0.8	219.9	OK

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Ridge:			

SW9.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 38	MH_CH 39	25.300	23.318	0.119	61.409	2.3	0.08	89.8	OK
SW9.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 39	MH_CH 40	24.970	21.406	0.118	61.071	2.2	0.08	86.7	OK
SW11.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 43	MH_CH 44	21.770	20.148	0.015	0.000	0.0	0	0.0	OK
SW11.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	MH_CH 44	MH_CH 42	22.240	20.145	0.101	0.000	0.0	0	0.0	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
SW3.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF14	MH_CF15	22.810	20.305	0.226	43.213	1.3	0.53	89.9	OK
SW3.001	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF15	MH_CF16	21.720	19.999	0.224	43.062	1.1	0.68	79.1	OK
SW3.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF16	MH_CF18	21.570	19.795	0.275	125.926	2.5	0.47	249.7	OK
SW4.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF17	MH_CF16	21.930	20.196	0.189	46.014	1.7	0.47	94.6	OK
SW3.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF18	Pond_F	20.810	19.019	0.205	187.469	5.3	0.61	374.6	OK
SW2.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF12	Swale	22.440	20.502	0.472	218.642	1.7	1	413.4	OK
SW1.009	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF9	Swale	23.510	20.421	0.276	188.602	2.7	0.36	343.0	OK
SW2.001	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF11	MH_CF12	22.920	21.111	0.450	160.702	1.9	1.4	309.9	Surcharged
SW1.008	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF8	MH_CF9	23.930	20.779	0.341	188.790	2.1	0.63	354.2	OK
SW1.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF3	MH_CF4	25.120	22.732	0.169	61.751	2.4	0.27	128.7	OK
SW1.007	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF7	MH_CF8	24.210	21.027	0.351	154.385	1.7	0.41	293.8	OK
SW2.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF10	MH_CF11	23.360	21.167	0.450	40.533	0.5	0.34	73.7	Surcharged
SW5.014	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG34	MH_CG35	25.470	22.245	0.600	426.288	2.5	1.26	706.5	Surcharged
SW5.015	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG35	POND_G	24.930	21.453	0.297	425.155	4.9	1	689.9	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			

SW8.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 36	MH_CG 37	27.460	25.120	0.438	159.683	2.0	1.1	317.1	Surcharged
SW 9.011	FSR: 100 years: +0 %: 960 mins: Winter	Pipe	POND H	OUTFAL L_H	19.472	18.158	0.240	4136.782	0.7	0.04	69.7	OK
SW1.012	FSR: 100 years: +0 %: 360 mins: Winter	Pipe	Pond_F	OUTFAL L_F	19.119	18.111	0.156	543.488	0.8	0.11	25.9	OK
SW5.016	FSR: 100 years: +0 %: 480 mins: Winter	Pipe	POND_ G	OUTFAL L_G	22.178	21.343	0.242	1879.839	0.7	0.04	41.5	Surcharged
SW 9.010	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 50	POND H	20.830	18.528	0.311	645.416	5.6	0.63	964.0	OK
SW9.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 37	MH_CH 38	25.770	23.869	0.166	75.834	2.0	0.19	128.7	OK
SW9.001	FSR: 100 years: +0 %: 240 mins: Winter	Pipe	MH_CH 36	MH_CH 37	25.710	24.545	0.089	428.499	0.9	0.03	17.0	Surcharged
SW9.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	GG_H2	MH_CH 36	27.826	24.318	0.392	26.990	0.5	0.08	51.9	OK
SW10.000	FSR: 100 years: +0 %: 60 mins: Winter	Pipe	GG_H4	MH_CH 41	22.618	20.541	0.270	44.632	0.3	0.07	14.0	OK
SW 12.001	FSR: 100 years: +0 %: 360 mins: Winter	Pipe	MH_CH 31	MH_CH 47	22.430	20.075	0.112	404.268	0.7	0.02	10.7	Surcharged
SW 12.000	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	GG_H5	MH_CH 31	22.085	19.900	0.365	31.335	0.4	0.03	10.8	OK
SW5.000	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	GG_G6	MH_CG 19	27.877	25.622	0.414	20.730	0.5	0.18	48.9	OK
SW5.001	FSR: 100 years: +0 %: 60 mins: Winter	Pipe	MH_CG 19	MH_CG 20	27.580	25.824	0.061	76.028	1.0	0.04	12.5	Surcharged
SW6.000	FSR: 100 years: +0 %: 60 mins: Summer	Pipe	GG_G5	MH_CG 29	26.056	24.738	0.300	132.542	0.6	0.12	33.1	Surcharged
SW6.001	FSR: 100 years: +0 %: 360 mins: Summer	Pipe	MH_CG 29	MH_CG 28	25.619	24.683	0.093	469.508	1.6	0.08	25.3	Surcharged
SW1.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF 2	MH_CF3	26.210	23.528	0.120	19.750	1.2	0.06	40.9	OK
SW1.000	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	GG_F8	MH_CF1	26.085	24.197	0.150	1.747	0.5	0.61	8.9	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				BT								
				Ridge:								

SW1.001	FSR: 100 years: +0 %: 480 mins: Winter	Pipe	MH_CF 1	MH_CF2	26.150	24.495	0.021	34.400	0.5	0	0.7	Surcharged
SW5.013	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	MH_CG 32	MH_CG 34	25.970	22.000	0.550	298.038	1.1	0.51	242.1	OK
SW1.010	FSR: 100 years: +0 %: 1440 mins: Winter	Pipe	Swale	MH_CF1 3	21.381	20.281	0.450	606.563	0.2	0.18	33.9	Surcharged
SW1.011	FSR: 100 years: +0 %: 60 mins: Winter	Pipe	MH_CF 13	Pond_F	21.720	20.073	0.138	25.503	0.5	0.01	4.3	Surcharged
SW10.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 42	MH_CH 45	22.770	20.175	0.226	67.750	1.2	0.21	121.2	OK
SW5.010	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 28	MH_CG 30	26.050	22.674	0.212	94.475	1.3	0.19	115.7	OK
SW5.009	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 27	MH_CG 28	26.160	23.018	0.148	64.494	2.1	0.2	96.3	OK
SW5.008	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 26	MH_CG 27	26.440	23.305	0.175	64.834	1.8	0.33	100.7	OK
SW10.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 45	MH_CH 40	23.770	19.950	0.363	67.098	0.7	0.17	97.6	OK
SW 9.009	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 49	MH_CH 50	21.512	18.883	0.574	645.888	2.7	0.97	981.4	OK
SW9.005	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 40	MH_CH 46	24.580	19.912	0.472	327.477	2.0	0.58	586.4	OK
SW9.006	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 46	MH_CH 47	23.070	19.571	0.447	326.316	2.0	0.55	553.2	OK
SW10.001	FSR: 100 years: +0 %: 240 mins: Winter	Pipe	MH_CH 41	MH_CH 42	22.610	20.588	0.071	179.064	0.9	0.02	7.6	OK
SW 9.007	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	MH_CH 47	MH_CH 48	22.990	19.315	0.566	304.125	1.4	0.49	491.8	OK
SW 9.008	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 48	MH_CH 49	22.650	19.282	0.730	647.183	2.3	0.99	1002.8	Surcharged
SW8.005	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 41	MH_CG 42	25.920	23.044	0.250	159.689	2.9	0.55	267.0	OK
SW8.006	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 42	MH_CH 48	24.230	21.861	0.227	159.452	3.0	0.47	242.9	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023			RIDGE					
				Designed by: BT	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				Ridge:								

SW5.011	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	MH_CG 30	MH_CG 31	25.990	22.511	0.221	162.711	1.1	0.25	108.4	OK
SW5.012	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	MH_CG 31	MH_CG 32	26.080	22.383	0.214	160.352	1.2	0.26	108.5	OK
SW7.000	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	GG_G5 (1)	MH_CG 33	26.867	24.532	0.243	9.588	0.4	0.15	12.9	OK
SW7.001	FSR: 100 years: +0 %: 240 mins: Winter	Pipe	MH_CG 33	MH_CG 32	25.840	24.771	0.058	177.694	0.7	0.08	7.1	Surcharged
SW1.006	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF 6	MH_CF7	24.310	21.303	0.269	93.054	1.4	0.21	172.6	OK
SW1.004	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF 4	MH_CF5	24.630	21.580	0.305	93.328	1.3	0.48	187.9	OK
SW1.005	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CF 5	MH_CF6	24.480	21.476	0.250	93.204	1.6	0.45	179.5	OK
SW5.006	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 24	MH_CG 25	26.870	23.611	0.216	65.467	1.4	0.51	108.5	OK
SW5.007	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 25	MH_CG 26	26.640	23.491	0.193	65.194	1.6	0.29	105.1	OK
SW5.004	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 22	MH_CG 23	27.290	24.192	0.202	66.360	1.7	0.23	118.1	OK
SW5.005	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 23	MH_CG 24	27.110	23.746	0.243	65.920	1.3	0.47	113.1	OK
SW5.002	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	MH_CG 20	MH_CG 21	27.430	24.661	0.056	35.543	1.1	0.04	12.5	OK
SW5.003	FSR: 100 years: +0 %: 60 mins: Summer	Pipe	MH_CG 21	MH_CG 22	27.390	24.475	0.084	74.253	1.3	0.03	12.5	OK
SW8.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 39	MH_CG 40	26.400	23.538	0.450	159.763	1.8	1.09	288.4	Surcharged
SW8.004	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 40	MH_CG 41	26.260	23.318	0.340	159.692	2.2	1.18	281.6	OK
SW8.001	FSR: 100 years: +0 %: 15 mins: Summer	Pipe	MH_CG 37	MH_CG 38	27.180	24.308	0.435	142.471	1.9	0.8	299.9	OK
SW8.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CG 38	MH_CG 39	26.510	23.743	0.450	159.795	1.8	1.06	291.5	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Ridge:			

SW9.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 38	MH_CH 39	25.300	23.339	0.139	75.088	2.4	0.11	121.1	OK
SW9.004	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 39	MH_CH 40	24.970	21.428	0.138	74.745	2.4	0.11	117.3	OK
SW11.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 43	MH_CH 44	21.770	20.158	0.034	0.000	0.1	0	0.0	OK
SW11.001	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	MH_CH 44	MH_CH 42	22.240	20.173	0.131	0.000	0.0	0	0.3	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			



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
SW3.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF14	MH_CF15	22.810	20.368	0.297	62.616	1.4	0.77	130.6	OK
SW3.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF15	MH_CF16	21.720	20.078	0.286	62.469	1.3	0.99	116.0	OK
SW3.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF16	MH_CF18	21.570	19.876	0.381	182.461	2.5	0.68	361.9	OK
SW4.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF17	MH_CF16	21.930	20.257	0.250	66.486	1.8	0.7	140.6	OK
SW3.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF18	Pond_F	20.810	19.151	0.283	271.683	5.0	0.87	530.4	OK
SW2.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF12	Swale	22.440	20.774	0.600	316.742	2.3	1.58	653.2	Surcharged
SW1.009	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF9	Swale	23.510	20.509	0.351	273.116	2.9	0.53	505.7	OK
SW2.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF11	MH_CF12	22.920	22.017	0.450	233.036	3.0	2.17	479.6	Surcharged
SW1.008	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF8	MH_CF9	23.930	20.906	0.448	273.550	2.3	0.92	521.3	OK
SW1.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF3	MH_CF4	25.120	22.767	0.232	89.278	2.3	0.39	186.5	OK
SW1.007	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF7	MH_CF8	24.210	21.133	0.468	223.651	1.8	0.61	435.3	OK
SW2.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF10	MH_CF11	23.360	22.092	0.450	58.758	0.7	0.52	112.4	Surcharged
SW5.014	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG34	MH_CG35	25.470	22.857	0.600	600.674	3.2	1.63	918.2	Surcharged
SW5.015	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG35	POND_G	24.930	21.649	0.405	599.658	4.5	1.32	912.4	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			

SW8.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 36	MH_CG 37	27.460	27.195	0.450	230.918	2.8	1.53	440.0	Flood Risk
SW 9.011	FSR: 100 years: +45 %: 360 mins: Winter	Pipe	POND H	OUTFAL L_H	19.472	18.339	0.285	2429.918	0.7	0.04	70.7	Surch arged
SW1.012	FSR: 100 years: +45 %: 360 mins: Winter	Pipe	Pond_F	OUTFAL L_F	19.119	18.228	0.218	746.418	0.8	0.12	26.9	Surch arged
SW5.016	FSR: 100 years: +45 %: 240 mins: Summer	Pipe	POND_ G	OUTFAL L_G	22.178	21.368	0.226	947.235	0.7	0.04	41.5	Surch arged
SW 9.010	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 50	POND H	20.830	18.648	0.391	918.780	5.8	0.86	1308. 1	OK
SW9.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 37	MH_CH 38	25.770	23.909	0.202	102.162	2.2	0.27	184.3	OK
SW9.001	FSR: 100 years: +45 %: 60 mins: Winter	Pipe	MH_CH 36	MH_CH 37	25.710	24.636	0.137	104.456	0.9	0.03	17.3	Surch arged
SW9.000	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	GG_H2	MH_CH 36	27.826	24.386	0.458	28.223	0.5	0.07	42.7	OK
SW10.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	GG_H4	MH_CH 41	22.618	20.523	0.250	9.094	0.5	0.08	15.7	OK
SW 12.001	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MH_CH 31	MH_CH 47	22.430	19.901	0.450	8.983	0.7	0.04	21.5	OK
SW 12.000	FSR: 100 years: +45 %: 60 mins: Winter	Pipe	GG_H5	MH_CH 31	22.085	20.154	0.450	68.351	0.3	0.03	11.2	Surch arged
SW5.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	GG_G6	MH_CG 19	27.877	25.807	0.450	22.375	0.6	0.16	44.3	OK
SW5.001	FSR: 100 years: +45 %: 30 mins: Winter	Pipe	MH_CG 19	MH_CG 20	27.580	25.948	0.061	36.852	1.0	0.04	12.5	Surch arged
SW6.000	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	GG_G5	MH_CG 29	26.056	24.943	0.300	140.813	0.7	0.12	33.6	Surch arged
SW6.001	FSR: 100 years: +45 %: 960 mins: Summer	Pipe	MH_CG 29	MH_CG 28	25.619	24.756	0.088	860.722	1.6	0.08	25.3	Surch arged
SW1.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF 2	MH_CF3	26.210	23.543	0.145	28.342	1.3	0.09	59.3	OK
SW1.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	GG_F8	MH_CF1	26.085	24.315	0.150	1.965	0.4	0.24	3.5	Surch arged

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			RIDGE
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Ridge:			

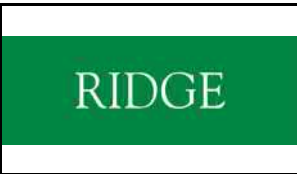
SW1.001	FSR: 100 years: +45 %: 480 mins: Winter	Pipe	MH_CF 1	MH_CF2	26.150	24.766	0.024	38.312	0.6	0	0.8	Surcharged
SW5.013	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 32	MH_CG 34	25.970	22.884	0.600	253.130	1.5	0.89	426.6	Surcharged
SW1.010	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Swale	MH_CF1 3	21.381	19.883	0.450	6.529	0.1	0.04	7.5	OK
SW1.011	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	MH_CF 13	Pond_F	21.720	20.186	0.169	25.464	0.5	0.01	4.3	Surcharged
SW10.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 42	MH_CH 45	22.770	20.209	0.465	94.343	1.3	0.34	199.5	OK
SW5.010	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MH_CG 28	MH_CG 30	26.050	22.706	0.301	109.316	1.1	0.26	160.0	OK
SW5.009	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 27	MH_CG 28	26.160	23.061	0.185	88.421	2.3	0.31	144.4	OK
SW5.008	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 26	MH_CG 27	26.440	23.356	0.222	88.716	1.9	0.48	149.2	OK
SW10.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 45	MH_CH 40	23.770	20.395	0.600	93.899	1.0	0.47	265.7	Surcharged
SW 9.009	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 49	MH_CH 50	21.512	19.343	0.750	919.133	3.0	1.33	1336.3	Surcharged
SW9.005	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MH_CH 40	MH_CH 46	24.580	20.115	0.750	416.692	1.6	0.61	616.0	OK
SW9.006	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MH_CH 46	MH_CH 47	23.070	20.115	0.750	416.175	1.6	0.63	635.9	Surcharged
SW10.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 41	MH_CH 42	22.610	20.520	0.139	6.115	0.9	0.02	8.9	OK
SW 9.007	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	MH_CH 47	MH_CH 48	22.990	20.040	0.750	423.785	1.5	0.67	675.3	Surcharged
SW 9.008	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 48	MH_CH 49	22.650	20.052	0.750	920.385	3.0	1.33	1342.1	Surcharged
SW8.005	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 41	MH_CG 42	25.920	23.122	0.320	231.737	3.1	0.78	376.6	OK
SW8.006	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 42	MH_CH 48	24.230	21.922	0.283	231.490	3.2	0.66	339.9	OK

5018551 : Main Road SW Infodrainage Calcs P02				Date: 01/12/2023								
				Designed by:	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				BT								
				Ridge:								

SW5.011	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 30	MH_CG 31	25.990	22.920	0.600	117.919	1.1	0.38	163.1	Surcharged
SW5.012	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 31	MH_CG 32	26.080	22.948	0.600	118.295	1.4	0.58	242.8	Surcharged
SW7.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	GG_G5 (1)	MH_CG 33	26.867	24.643	0.300	10.849	0.5	0.13	10.9	OK
SW7.001	FSR: 100 years: +45 %: 120 mins: Summer	Pipe	MH_CG 33	MH_CG 32	25.840	24.860	0.058	88.970	0.7	0.08	7.1	Surcharged
SW1.006	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF 6	MH_CF7	24.310	21.359	0.351	134.725	1.5	0.32	258.9	OK
SW1.004	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF 4	MH_CF5	24.630	21.671	0.387	135.033	1.4	0.7	277.2	OK
SW1.005	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CF 5	MH_CF6	24.480	21.550	0.315	134.888	1.8	0.67	267.6	OK
SW5.006	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 24	MH_CG 25	26.870	23.674	0.274	89.183	1.6	0.74	157.6	OK
SW5.007	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 25	MH_CG 26	26.640	23.544	0.244	88.916	1.7	0.43	153.9	OK
SW5.004	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 22	MH_CG 23	27.290	24.234	0.258	90.100	1.8	0.33	168.5	OK
SW5.005	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 23	MH_CG 24	27.110	23.815	0.309	89.641	1.4	0.67	162.5	OK
SW5.002	FSR: 100 years: +45 %: 120 mins: Winter	Pipe	MH_CG 20	MH_CG 21	27.430	24.661	0.056	156.090	1.1	0.04	12.5	OK
SW5.003	FSR: 100 years: +45 %: 120 mins: Winter	Pipe	MH_CG 21	MH_CG 22	27.390	24.475	0.080	155.849	1.3	0.03	12.5	OK
SW8.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 39	MH_CG 40	26.400	24.104	0.450	231.816	2.5	1.51	400.1	Surcharged
SW8.004	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 40	MH_CG 41	26.260	23.713	0.450	231.754	2.5	1.66	395.4	Surcharged
SW8.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 37	MH_CG 38	27.180	25.777	0.450	231.533	2.6	1.12	418.0	Surcharged
SW8.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CG 38	MH_CG 39	26.510	24.507	0.450	231.842	2.6	1.48	407.1	Surcharged

5018551 : Main Road SW Infodrainage Calcs P02		Date: 01/12/2023			
		Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Ridge:			

SW9.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 38	MH_CH 39	25.300	23.372	0.170	101.388	2.7	0.16	176.7	OK
SW9.004	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 39	MH_CH 40	24.970	21.461	0.169	100.849	2.6	0.16	172.9	OK
SW11.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 43	MH_CH 44	21.770	20.224	0.090	0.078	0.4	0.03	11.1	OK
SW11.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	MH_CH 44	MH_CH 42	22.240	20.219	0.168	0.520	0.6	0.06	36.7	OK

5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Ridge:			

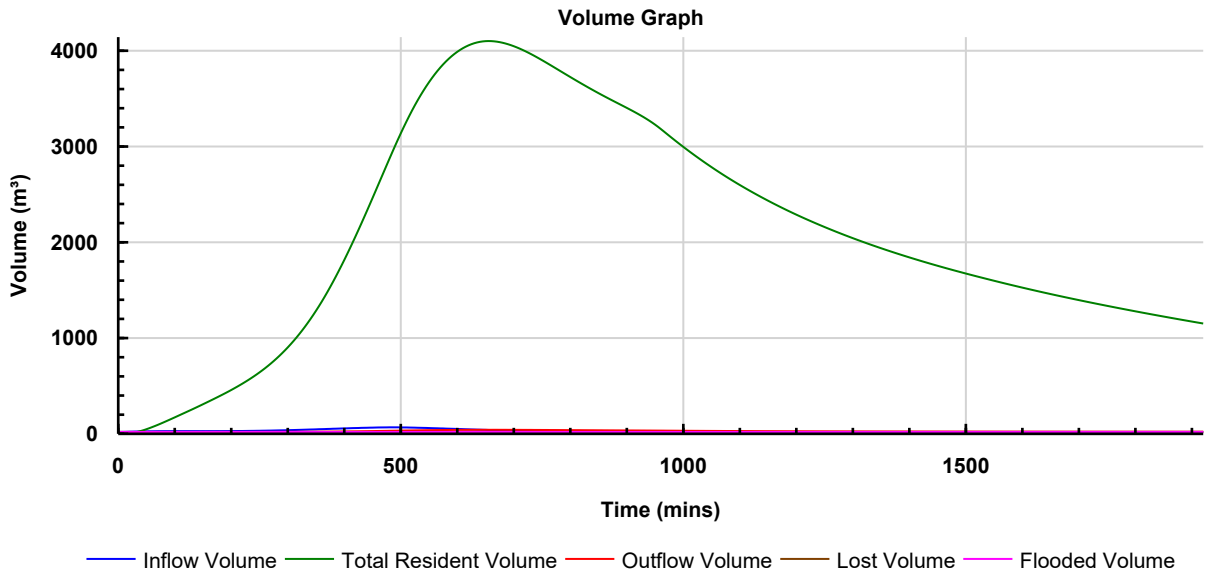
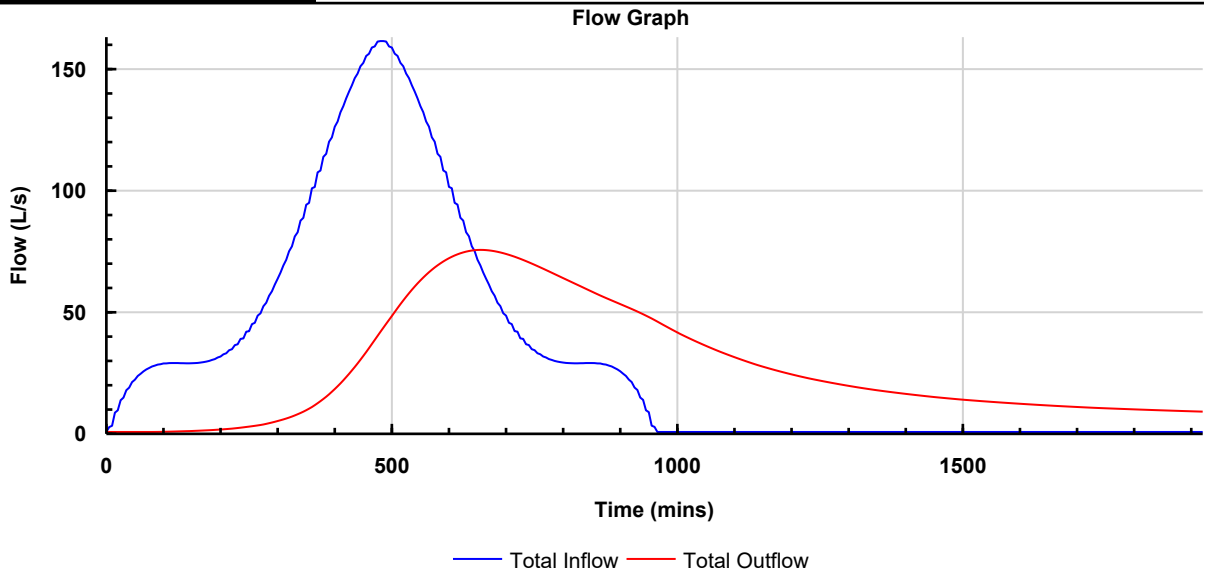


Phase
FSR: 1 years: Increase Rainfall (%): +0: 960 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
OUTFALL_H			37.7	1494.465
OUTFALL_F			10.0	567.986
OUTFALL_G			27.9	1024.745
TOTAL	161.5	3678.825	75.2	3087.196

Graphs



5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Ridge:			



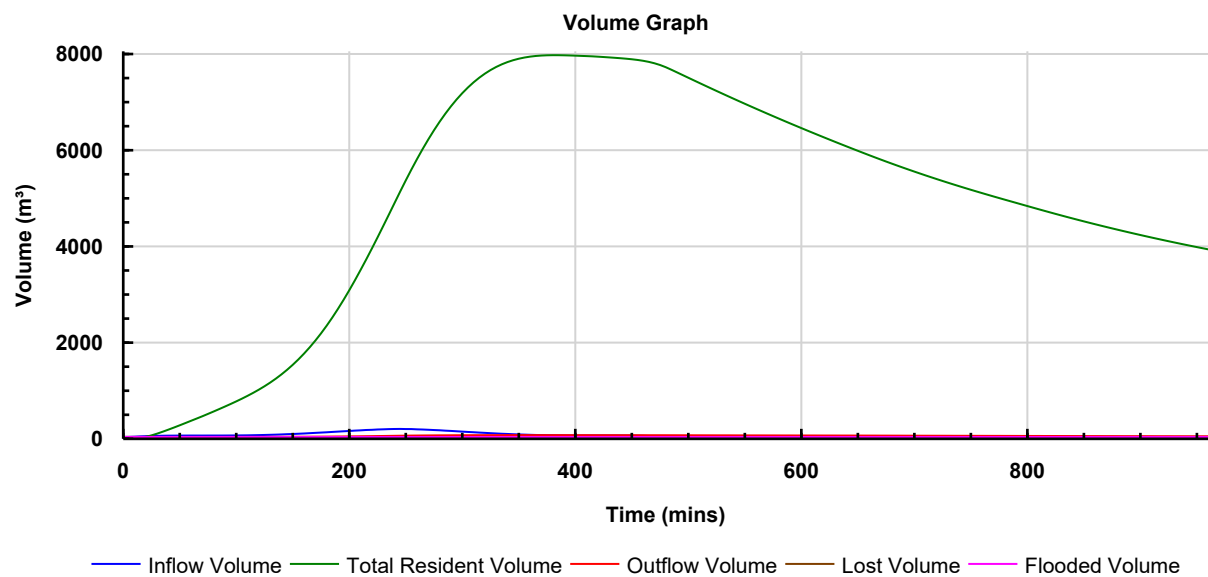
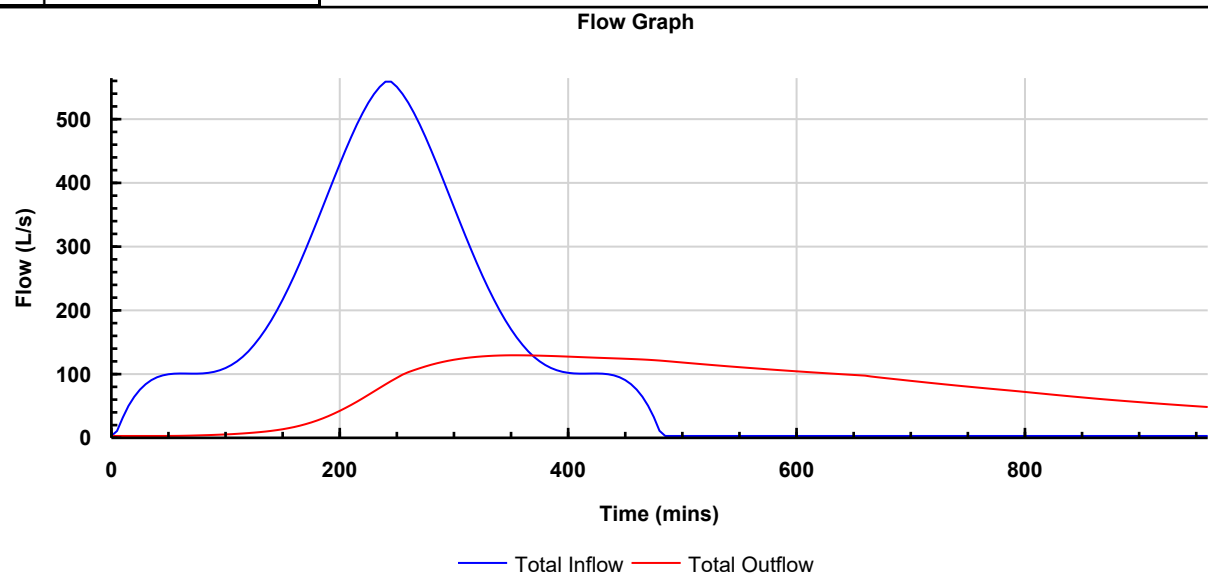
Phase

FSR: 30 years: Increase Rainfall (%): +0: 480 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
OUTFALL_H			65.7	2221.736
OUTFALL_F			20.7	532.707
OUTFALL_G			41.4	1573.297
TOTAL	558.8	6366.310	127.3	4327.740

Graphs



5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Ridge:			



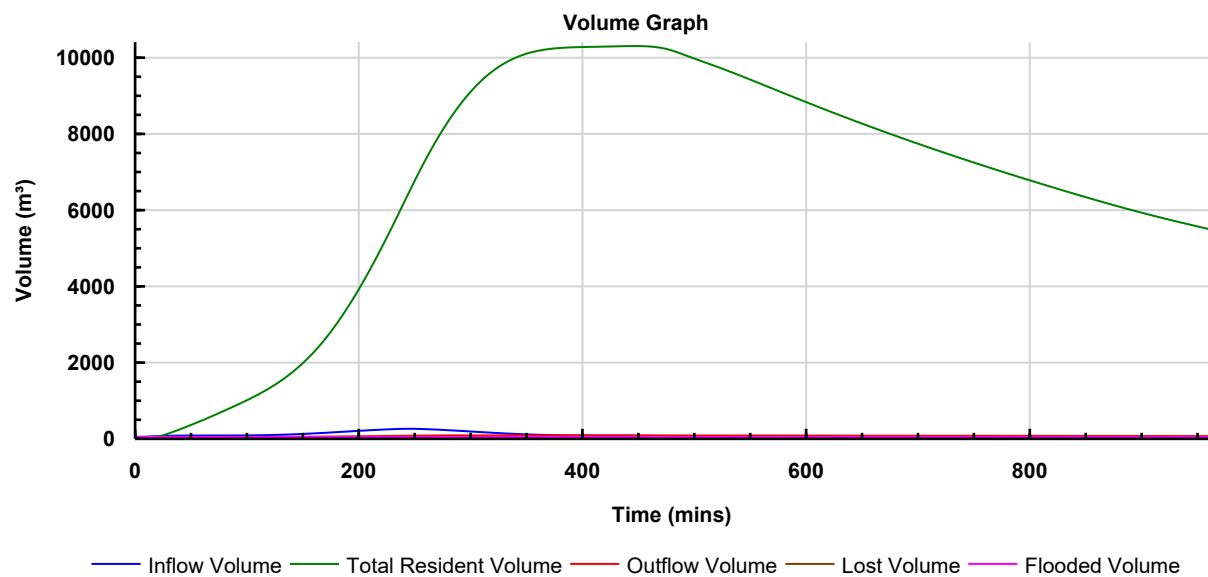
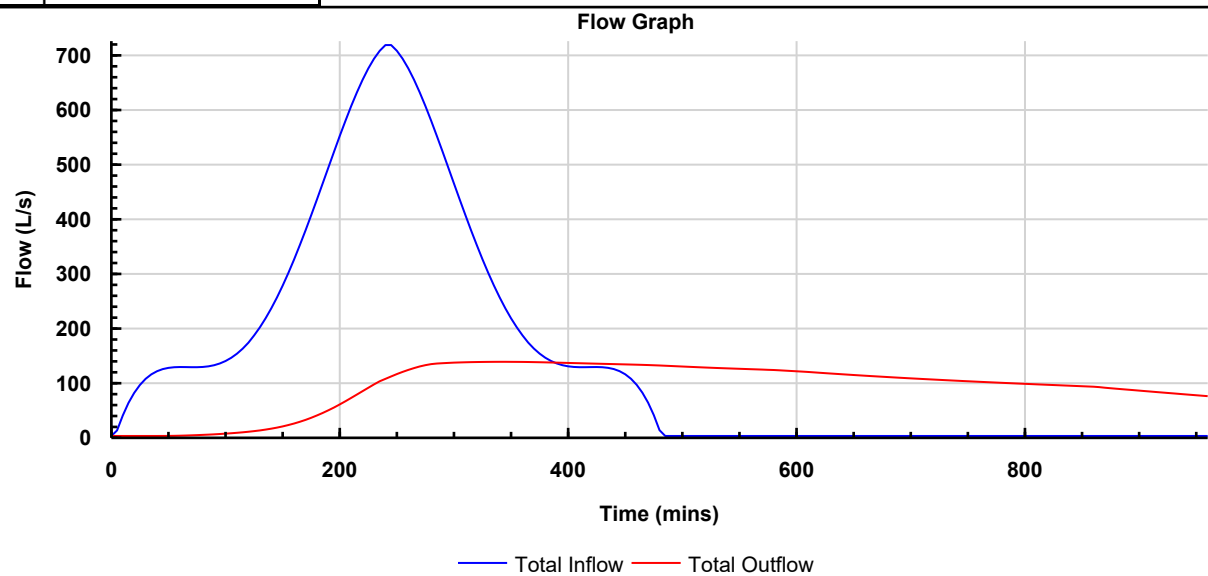
Phase

FSR: 100 years: Increase Rainfall (%): +0: 480 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
OUTFALL_H			69.6	2706.451
OUTFALL_F			25.7	648.932
OUTFALL_G			41.4	1878.391
TOTAL	718.9	8189.674	136.4	5233.774

Graphs



5018551 : Main Road SW Infodrainage Calcs P02	Date: 01/12/2023			
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Ridge:			



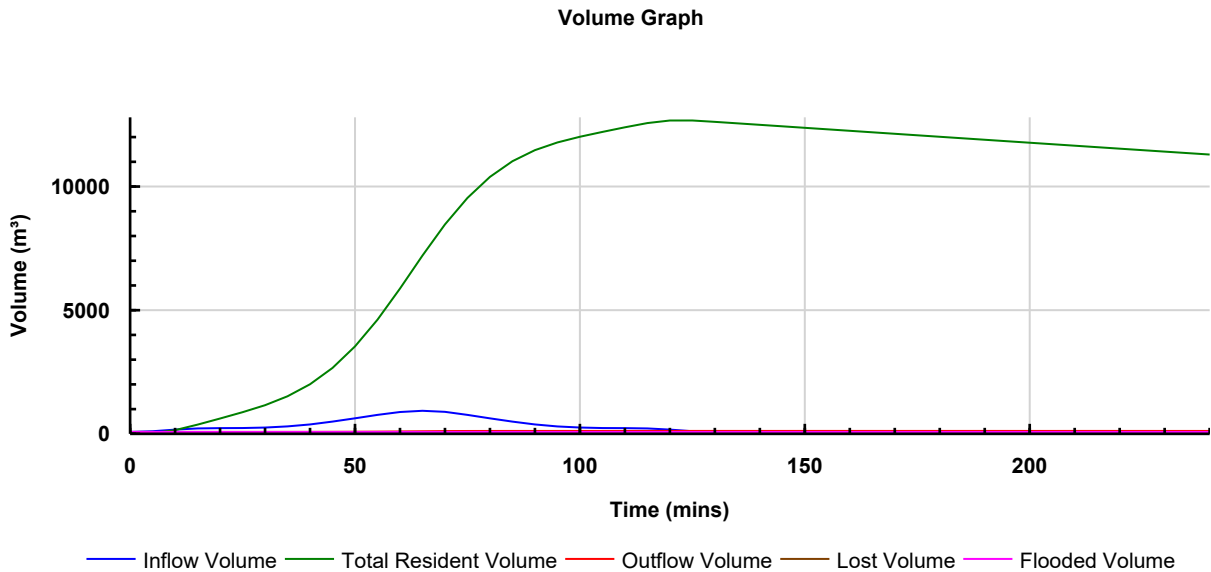
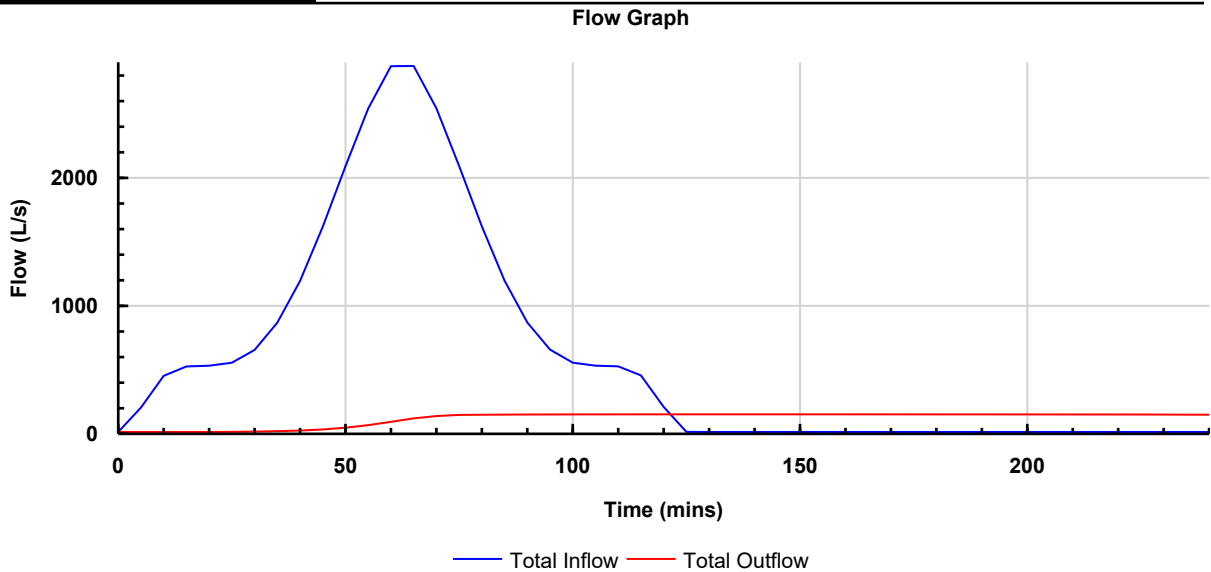
Phase

FSR: 100 years: Increase Rainfall (%): +45: 120 mins: Winter

Tables

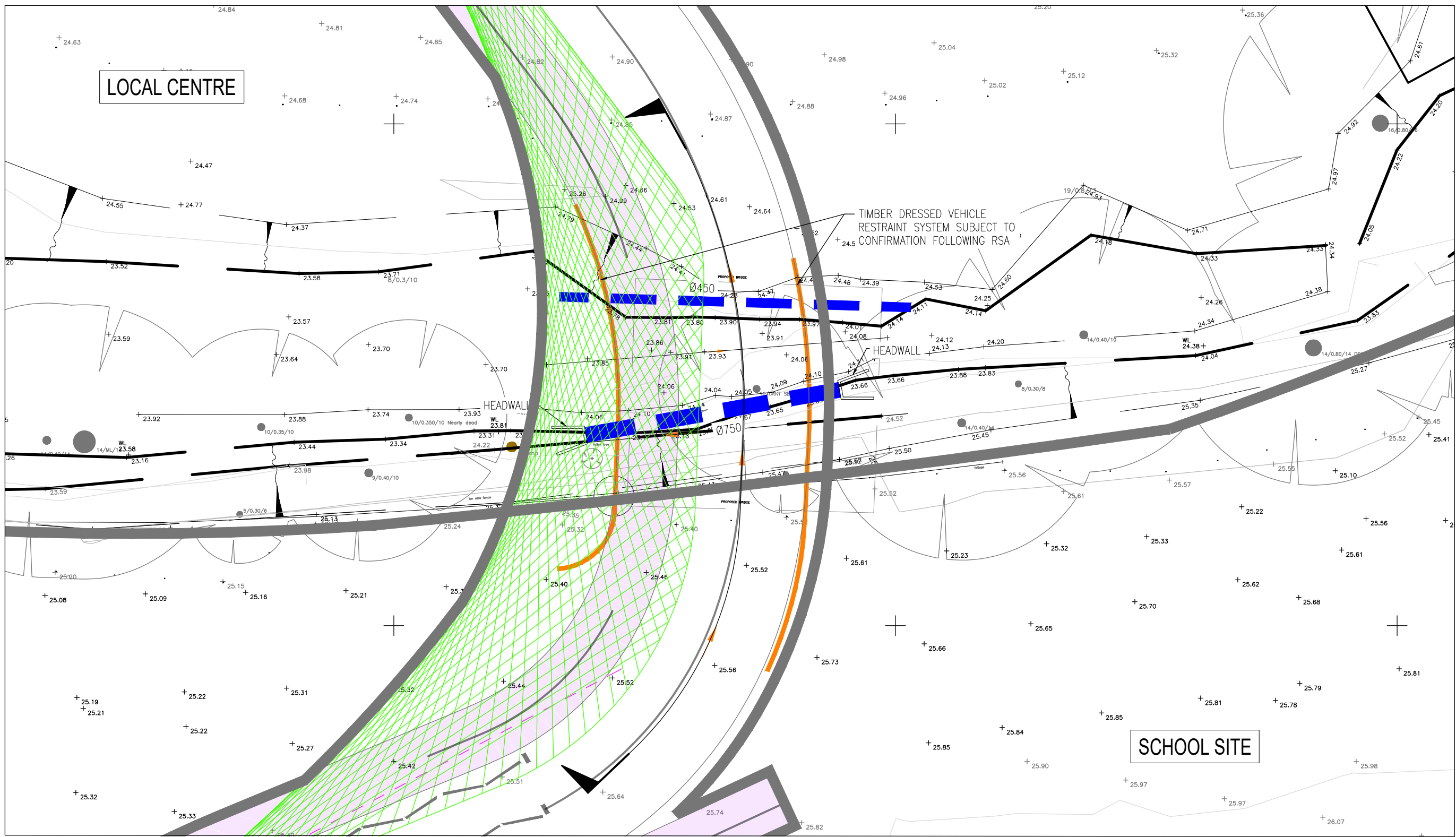
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
OUTFALL_H			70.4	759.921
OUTFALL_F			26.8	291.410
OUTFALL_G			41.3	463.683
TOTAL	2874.4	8415.893	138.5	1515.014

Graphs



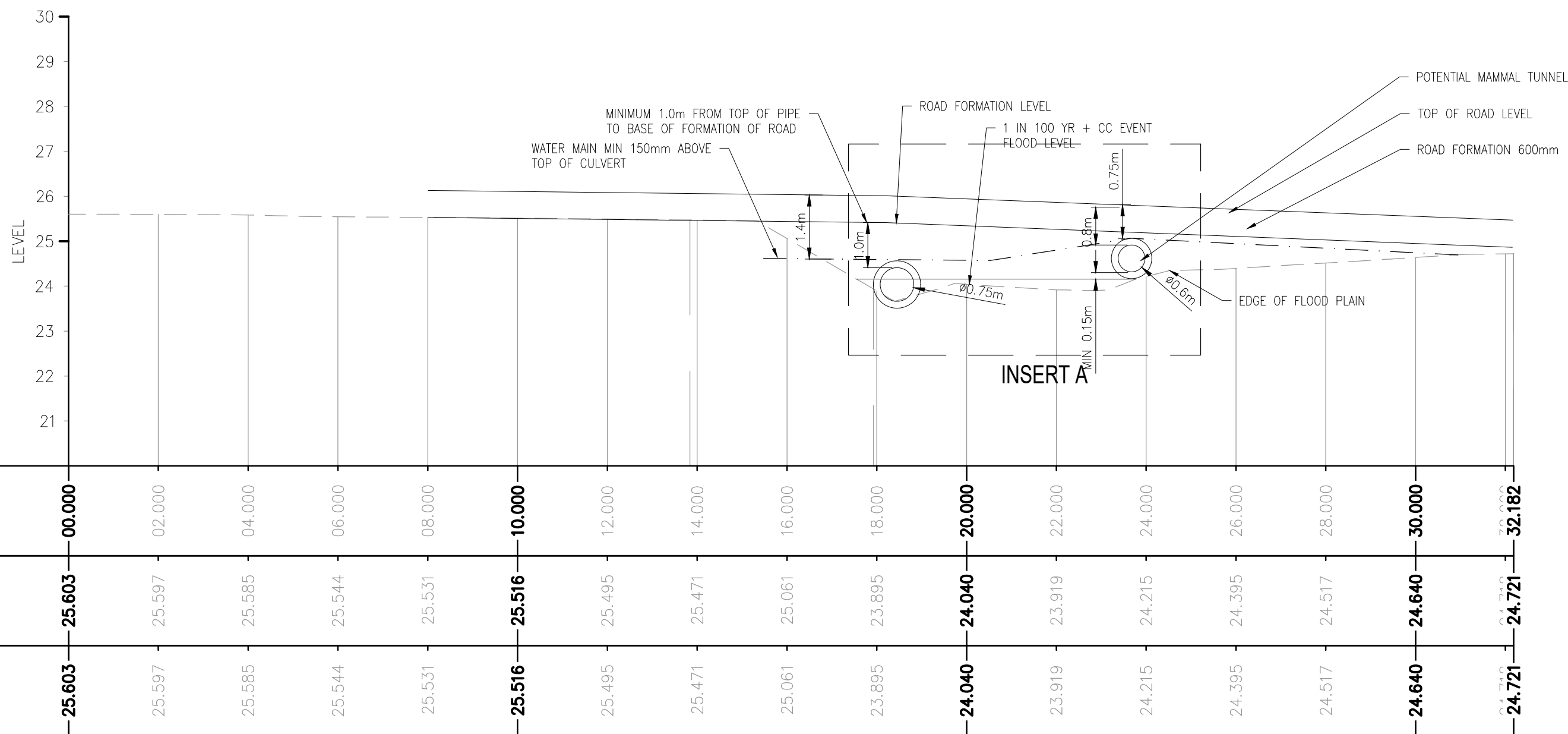
APPENDIX E

CROSSING POINT DRAWINGS

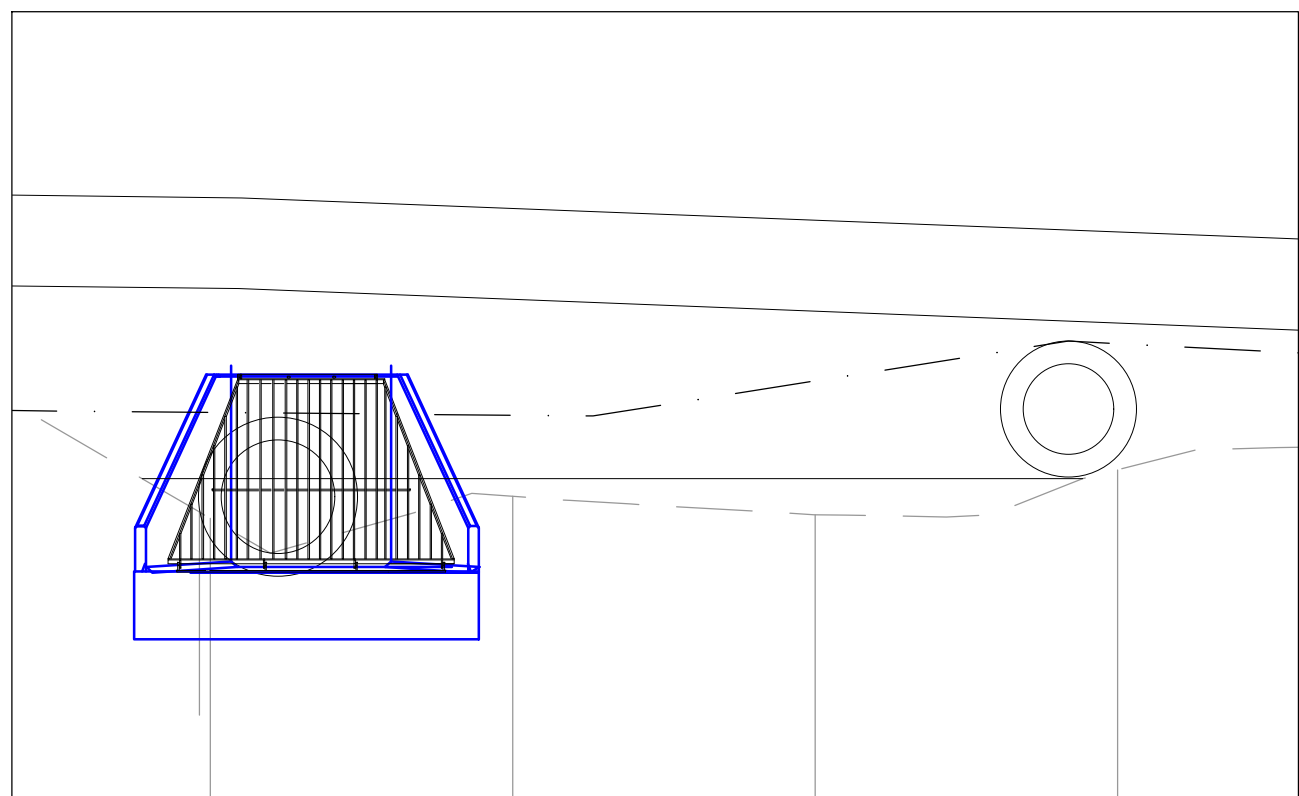


OVERALL PLAN
SCALE 1:200

South of Ditch Area – Longitudinal Section
SCALE: H 1:100, V 1:100. DATUM: 20.000



CHAINAGE	00.000	02.000	04.000	06.000	08.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.182
EXISTING LEVEL	25.603	25.597	25.585	25.544	25.531	25.516	25.495	25.471	25.061	23.895	24.040	23.919	24.215	24.395	24.517	24.640	24.721
PROPOSED LEVEL	25.603	25.597	25.585	25.544	25.531	25.516	25.495	25.471	25.061	23.895	24.040	23.919	24.215	24.395	24.517	24.640	24.721

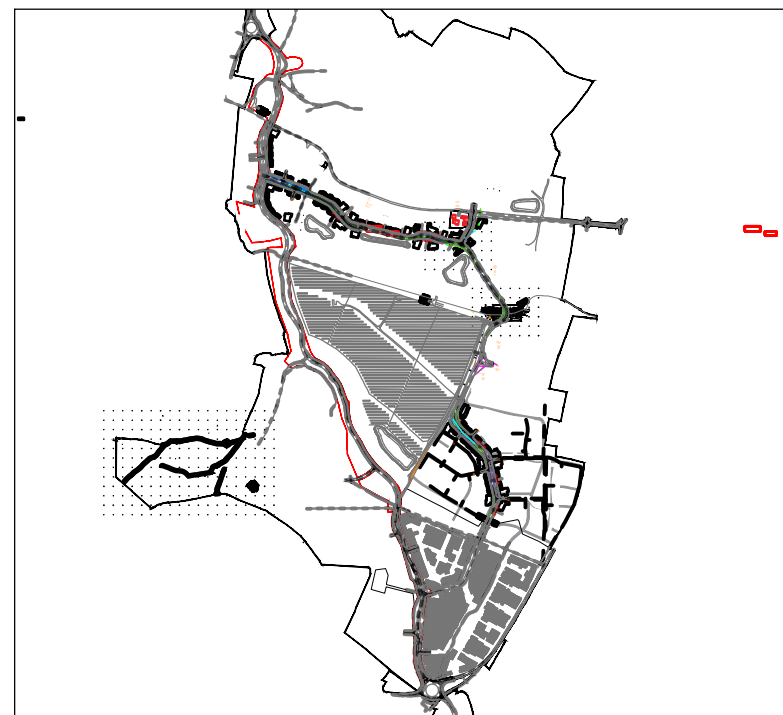


INSERT A
SCALE 1:50

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SITE PLAN
SCALE: 1:5000

P04	LEVELS ADJUST FOR MAMMAL TUNNELS AND TW REQUIREMENTS	01/12/23	PO
P03	UPDATED LENGTH PIPE AND MAMMAL	27/07/2023	PO
P02	MAMMAL TUNNEL REPOSITIONED	12/07/2023	JM
P01	UPDATE DRAWING WITH COMMENTS	05/07/2023	PO
-	INITIAL ISSUE	18/05/2023	RML

REV	DESCRIPTION	DATE	DRAWN
-----	-------------	------	-------

ORIGINATOR:

RIDGE

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TEL: 01962 834400
WWW.RIDGE.CO.UK

CLIENT:

EASTLEIGH
BOROUGH COUNCIL

IN ASSOCIATION WITH:

PROJECT:
ONE HORTON HEATH
SITE WIDE
INFRASTRUCTURE DELIVERY

TITLE:
PROPOSED ROAD RC05
CROSSING ROUTES
SECTIONS & PLAN

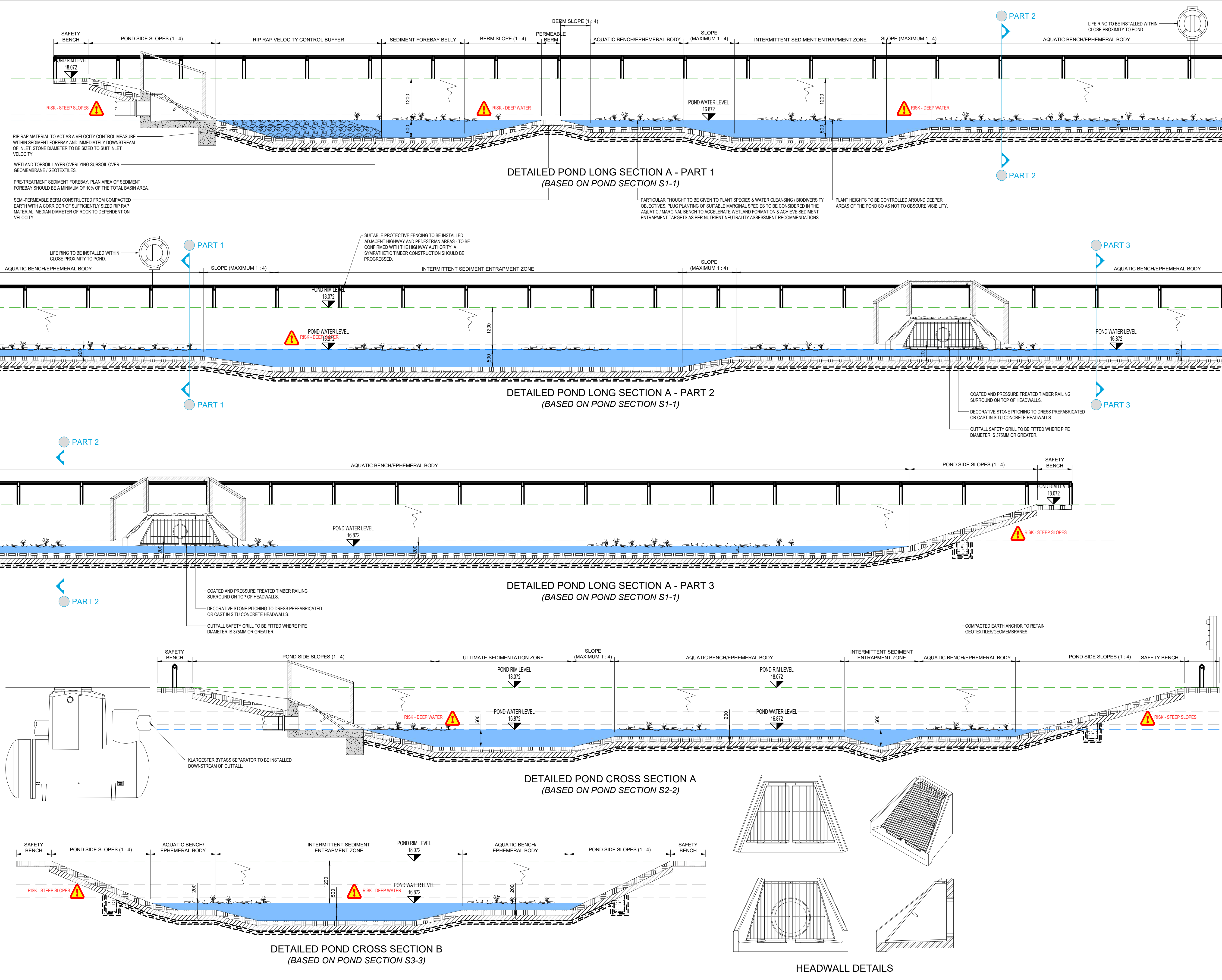
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RML			INITIAL ISSUE:	18/05/2023		

STATUS:
PRELIMINARY

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5018551	RDG	XX	ST	DR	C	0595	P04

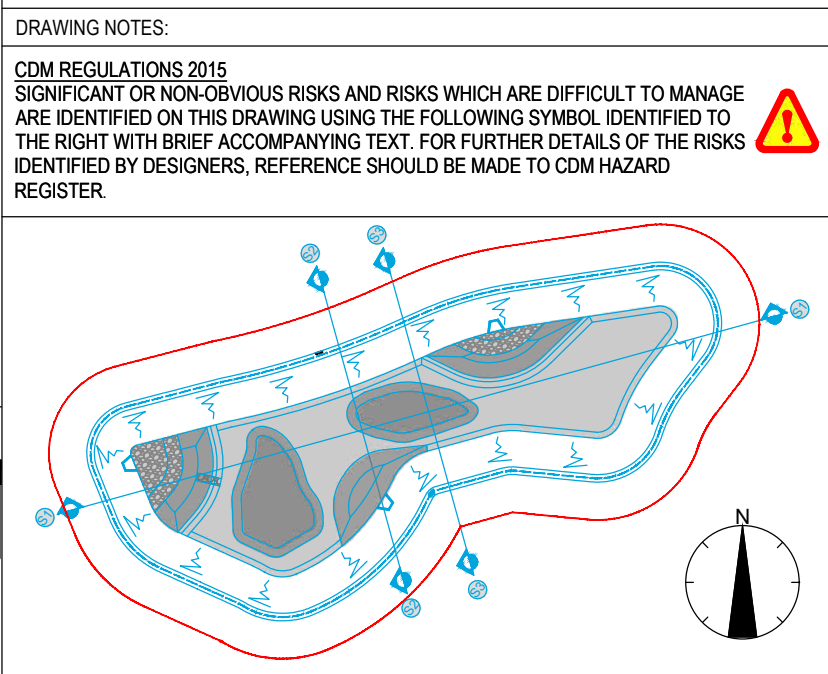
APPENDIX F

SUDS PLAN DRAWINGS



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WESTERN POND EXTRACT

P01	AMENDMENTS MADE IN SEDIMENTATION AREAS	17/02/2023	RML
INITIAL ISSUE		10/02/2023	ZS
REV	DESCRIPTION	DATE	DRAWN



1 Royal Court,
Kings Worthy,
Winchester,
SO23 7TW

TEL: 01962 834400
WWW.RIDGE.CO.UK



IN ASSOCIATION WITH:

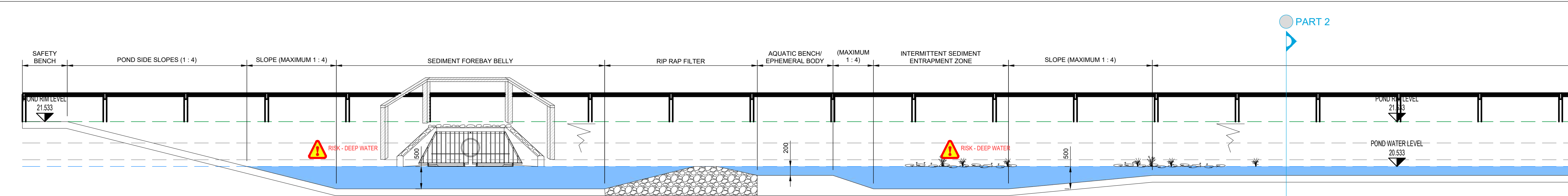
PROJECT:
**ONE HORTON HEATH
SITE WIDE
INFRASTRUCTURE DELIVERY**

TITLE:
**DETAILED SuDS SECTIONS
WESTERN POND**

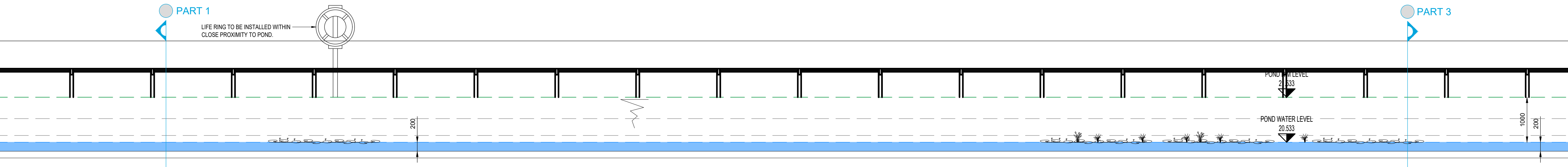
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RML	ZS	TC	1:50	A1
INITIAL ISSUE:			10/02/2023	

STATUS:
PRELIMINARY

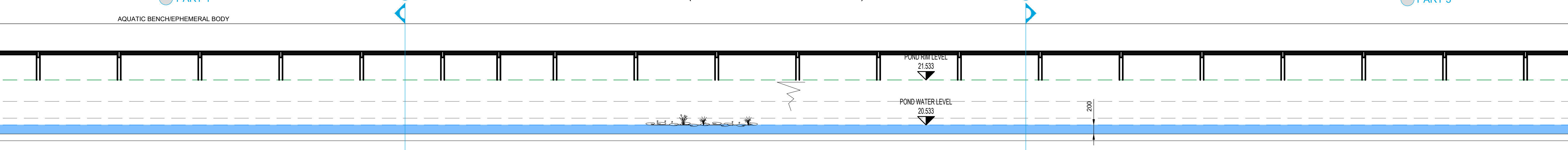
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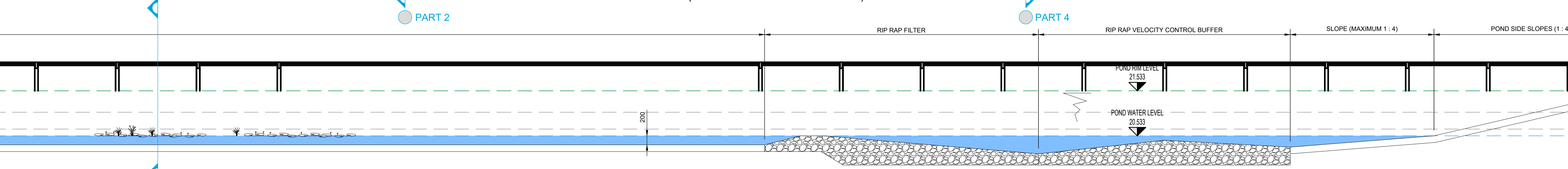
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(BASED ON POND SECTION S4-4)



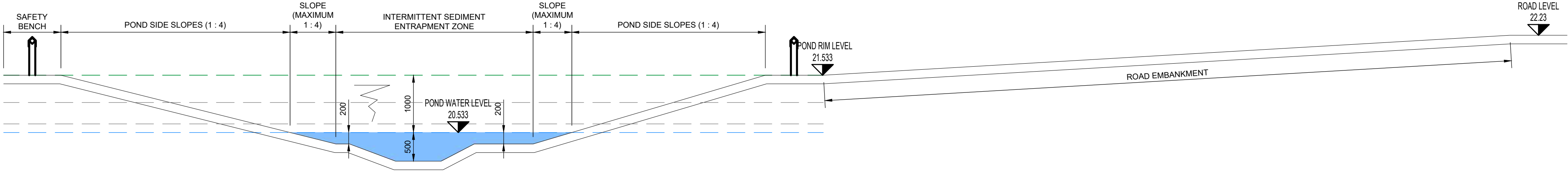
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(BASED ON POND SECTION S4-4)



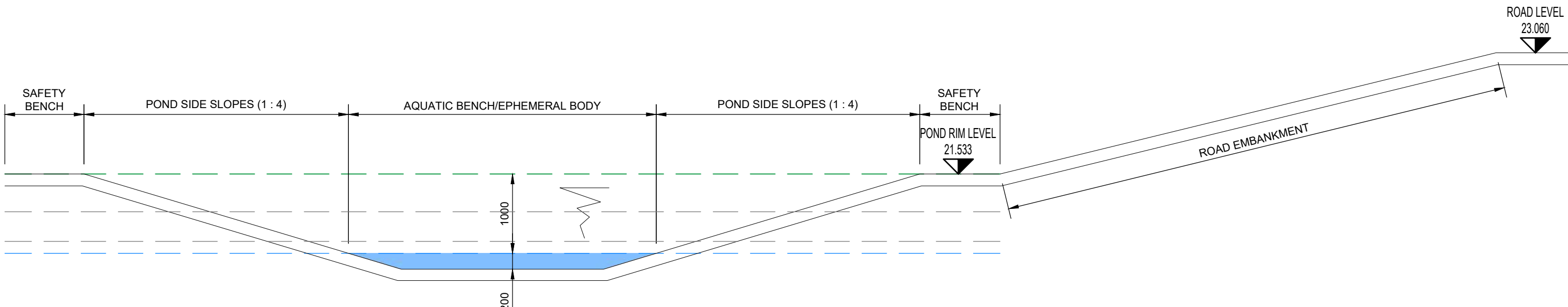
DETAILED POND LONG SECTION B - PART 3
(BASED ON POND SECTION S4-4)



DETAILED POND LONG SECTION B - PART 4
(BASED ON POND SECTION S4-4)



DETAILED POND CROSS SECTION B
(BASED ON POND SECTION S5-5)



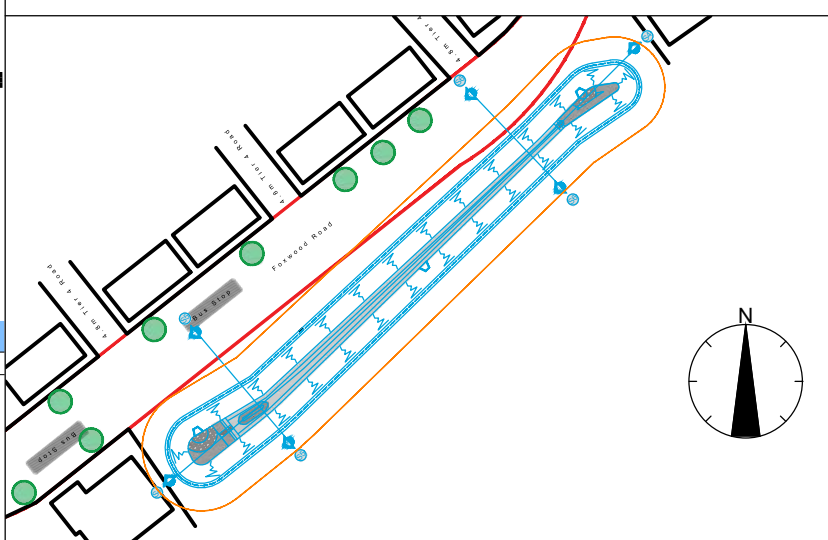
DETAILED POND CROSS SECTION B
(BASED ON POND SECTION S6-6)

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CENTRAL POND EXTRACT

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ORIGINATOR:		



1 Royal Court,
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Winchester,
SO23 7TW

TEL: 01962 834400
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IN ASSOCIATION WITH:

PROJECT:
**ONE HORTON HEATH
SITE WIDE
INFRASTRUCTURE DELIVERY**

TITLE:
**DETAILED SuDS SECTIONS
CENTRAL POND**

TECH:	CSE:	ICSE:	SCALE:	@
RML	ZS	TC	1:50	A1
STATUS:			INITIAL ISSUE:	17/02/2023

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DRAWING No:	PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
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