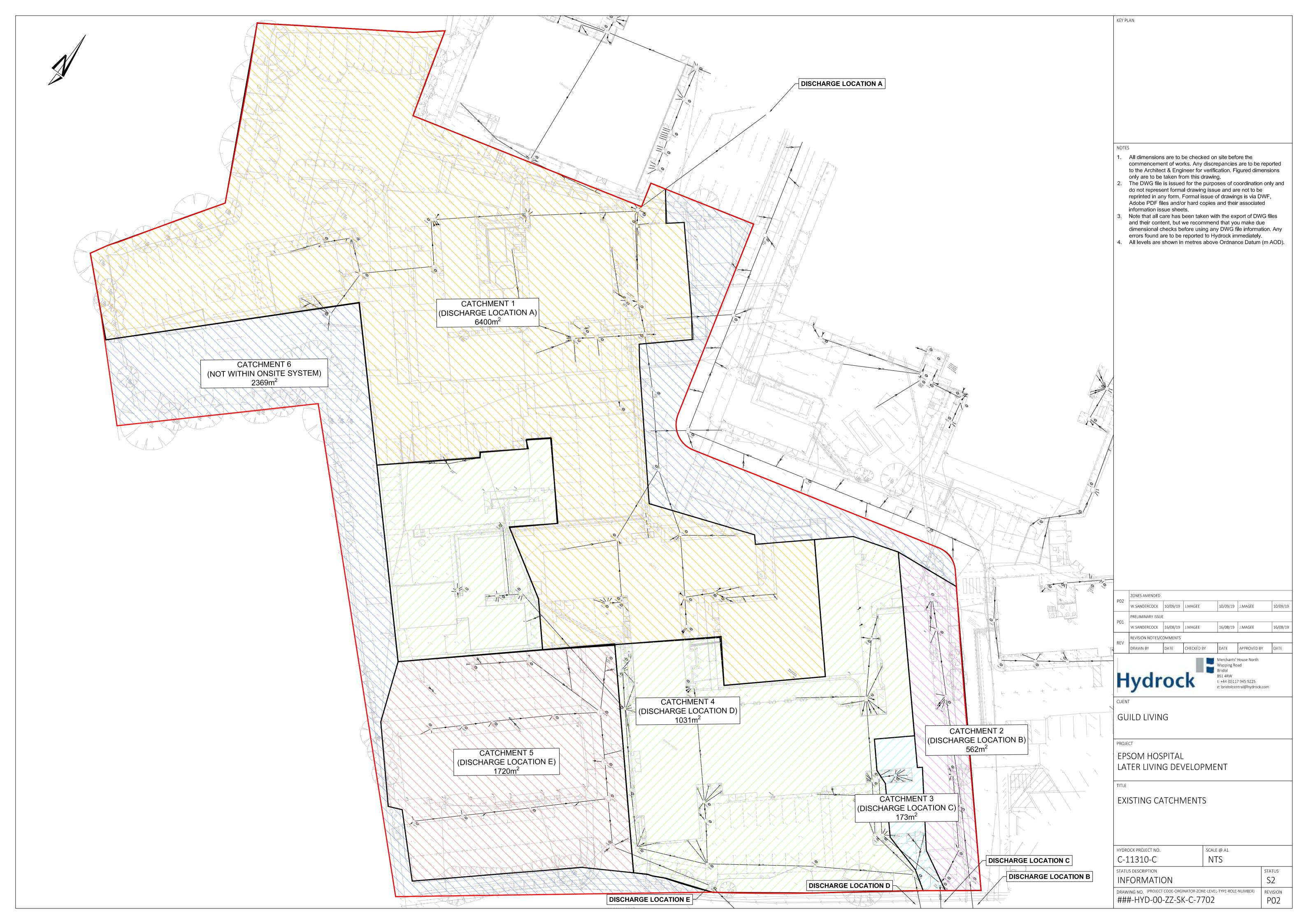


# Appendix E

### Existing / Proposed Catchment Areas









# Appendix F

#### Calculations



Hydrock Consultants Ltd	Page 1	
Date 04/12/2019 10:36	Designed by jasonmagee	Micro
File Attenuation (Complex).SRCX	Checked by	Drainage
Innovyze	Source Control 2018.1.1	

#### Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 65 minutes.

	Stor	m	Max	Max	Max	Max		Max	Max	Status
	Even	t	Level	Depth	Infiltration	Control	Σ	Outflow	Volume	
			(m)	(m)	(l/s)	(1/s)		(1/s)	(m³)	
15	min	Summer	59.263	0.263	0.0	51.4		51.4	207.0	O K
30	min	Summer	59.329	0.329	0.0	52.5		52.5	263.6	O K
60	min	Summer	59.360	0.360	0.0	53.0		53.0	290.7	O K
120	min	Summer	59.352	0.352	0.0	52.8		52.8	283.2	O K
180	min	Summer	59.330	0.330	0.0	52.5		52.5	264.4	O K
240	min	Summer	59.304	0.304	0.0	52.0		52.0	241.8	O K
360	min	Summer	59.253	0.253	0.0	51.2		51.2	198.7	O K
480	min	Summer	59.204	0.204	0.0	50.3		50.3	158.5	ОК
600	min	Summer	59.160	0.160	0.0	49.6		49.6	122.7	ОК
720	min	Summer	59.121	0.121	0.0	48.9		48.9	91.8	ОК
960	min	Summer	59.060	0.060	0.0	47.8		47.8	44.7	ОК
1440	min	Summer	59.001	0.001	0.0	46.7		46.7	0.8	ОК
2160	min	Summer	59.000	0.000	0.0	34.5		34.5	0.0	ОК
2880	min	Summer	59.000	0.000	0.0	27.5		27.5	0.0	ОК
4320	min	Summer	59.000	0.000	0.0	20.0		20.0	0.0	ОК
5760	min	Summer	59.000	0.000	0.0	15.9		15.9	0.0	ОК
			59.000		0.0	13.3		13.3	0.0	ОК
			59.000		0.0	11.5		11.5	0.0	ОК
			59.000		0.0	10.2		10.2	0.0	ОК
			59.300		0.0	52.0		52.0	238.2	ОК

Storm		Rain	Flooded	Discharge	Time-Peak	
Event			(mm/hr)	Volume	Volume	(mins)
				$(m^3)$	(m³)	
15	min	Summer	131.851	0.0	271.0	22
30	min	Summer	88.566	0.0	365.5	34
60	min	Summer	56.713	0.0	469.6	58
120	min	Summer	35.004	0.0	578.1	90
180	min	Summer	25.973	0.0	643.1	126
240	min	Summer	20.877	0.0	687.0	160
360	min	Summer	15.365	0.0	760.6	226
480	min	Summer	12.341	0.0	812.6	290
600	min	Summer	10.402	0.0	856.7	350
720	min	Summer	9.042	0.0	893.7	410
960	min	Summer	7.241	0.0	954.4	524
1440	min	Summer	5.284	0.0	1045.2	736
2160	min	Summer	3.848	0.0	1141.7	0
2880	min	Summer	3.068	0.0	1213.9	0
4320	min	Summer	2.226	0.0	1321.1	0
5760	min	Summer	1.771	0.0	1401.0	0
7200	min	Summer	1.483	0.0	1467.2	0
8640	min	Summer	1.284	0.0	1524.4	0
10080	min	Summer	1.137	0.0	1574.4	0
15	min	Winter	131.851	0.0	303.0	23

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