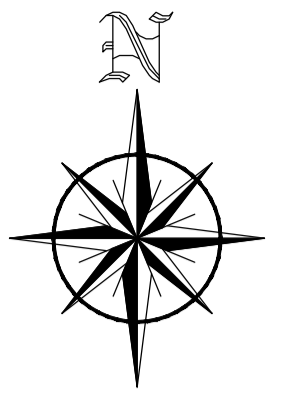


CONTRIBUTING AREAS:

ROAD AREAS	
ROOF AND HOUSE SURROUND AREAS	
FOOTPATH AREAS	
PUBLIC PARKING AREAS	
CATCHMENT STREAM DISCHARGE LOCATION	



CATCHMENT B

Site Location:	Dublin
Design Storm Return Period:	100 years
Climate Change Factor:	20 %
Soil Type:	2
Total Site Area:	2.220 ha
Roads, Paths and Parking (public)	0.674 ha @ 80% Impervious
Roofs and House Curtilage (private)	0.452 ha @ 80% Impervious
Softstand Area:	1.09 ha @ 20% Impervious
Effective Impermeable Area:	1.120 ha
Allowable Outflow	
Calculate	
IH124: QBAR = 0.00108 x AREA ^{0.05} x SAAR ^{1.17} x SOIL ^{2.17}	
AREA:	0.02 km ²
SAAR:	920 mm
SOIL:	0.3
QBAR/ha	2.51 l/s/ha
Allowable Outflow	5.6 l/s <small>Smallest Allowable Discharge Rate (2l/s)</small>

TOTAL ATTENUATION VOLUME PROVIDED=971m³

CATCHMENT D

Site Location:	Dublin
Design Storm Return Period:	100 years
Climate Change Factor:	20 %
Soil Type:	2
Total Site Area:	1.638 ha
Roads, Paths and Parking (public)	0.306 ha @ 80% Impervious
Roofs and House Curtilage (private)	0.520 ha @ 80% Impervious
Softstand Area:	0.81 ha @ 20% Impervious
Effective Impermeable Area:	0.823 ha
Allowable Outflow	
Calculate	
IH124: QBAR = 0.00108 x AREA ^{0.05} x SAAR ^{1.17} x SOIL ^{2.17}	
AREA:	0.02 km ²
SAAR:	920 mm
SOIL:	0.3
QBAR/ha	2.51 l/s/ha
Allowable Outflow	4.1 l/s <small>Smallest Allowable Discharge Rate (2l/s)</small>

TOTAL ATTENUATION VOLUME PROVIDED=747.2m³

CATCHMENT C

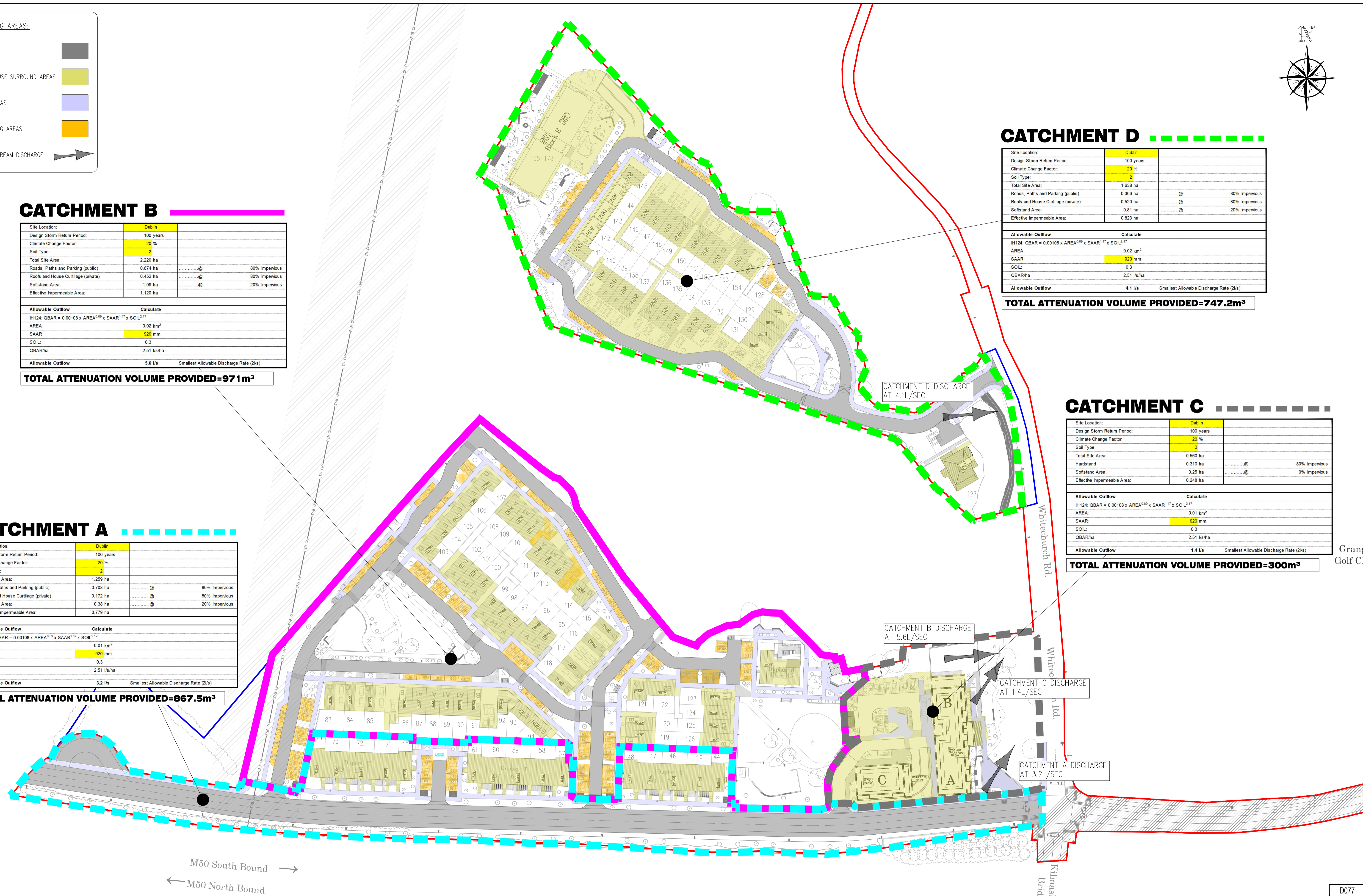
Site Location:	Dublin
Design Storm Return Period:	100 years
Climate Change Factor:	20 %
Soil Type:	2
Total Site Area:	0.560 ha
Hardstand	0.310 ha @ 80% Impervious
Softstand Area:	0.25 ha @ 0% Impervious
Effective Impermeable Area:	0.248 ha
Allowable Outflow	
Calculate	
IH124: QBAR = 0.00108 x AREA ^{0.05} x SAAR ^{1.17} x SOIL ^{2.17}	
AREA:	0.01 km ²
SAAR:	920 mm
SOIL:	0.3
QBAR/ha	2.51 l/s/ha
Allowable Outflow	1.4 l/s <small>Smallest Allowable Discharge Rate (2l/s)</small>

TOTAL ATTENUATION VOLUME PROVIDED=300m³

CATCHMENT A

Site Location:	Dublin
Design Storm Return Period:	100 years
Climate Change Factor:	20 %
Soil Type:	2
Total Site Area:	1.259 ha
Roads, Paths and Parking (public)	0.708 ha @ 80% Impervious
Roofs and House Curtilage (private)	0.172 ha @ 80% Impervious
Softstand Area:	0.38 ha @ 20% Impervious
Effective Impermeable Area:	0.779 ha
Allowable Outflow	
Calculate	
IH124: QBAR = 0.00108 x AREA ^{0.05} x SAAR ^{1.17} x SOIL ^{2.17}	
AREA:	0.01 km ²
SAAR:	920 mm
SOIL:	0.3
QBAR/ha	2.51 l/s/ha
Allowable Outflow	3.2 l/s <small>Smallest Allowable Discharge Rate (2l/s)</small>

TOTAL ATTENUATION VOLUME PROVIDED=867.5m³



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- NOTES**
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 - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Dm By	Chkd By
P1	03.03.2022	ISSUED FOR PLANNING STAGE 3	DD	OS

Architect	JFOC Architects
Project	Edmondstown Lands
Title	Surface Water Catchment Characteristics
Dwg. No.	EDM-CSC-GF-XX-DR-C-0010
Date	Nov 2020
Dm by	PJC
Chkd by	RFM
Apprd by	OS
Scale	1:750 @ A1
Revision	P1

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Quality Environment I.S. EN ISO 9001:2008
 Energy I.S. EN ISO 14001:2004
 Health & Safety OHSAS 18001:2007

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