



TREATMENT TRAIN APPROACH - RUNOFF QUANTITY AND QUALITY

Criteria 1 - River Water Quality Protection (Volumes required for Small Events)	
Total Area of Site (excluding existing buildings)	1.29 Ha
PIMP Factor	0.22
Impermeable Area	0.28 Ha
Interception Volume Required (5mm Rainfall)	11.2m ³
Treatment Volume Required (15mm Rainfall)	33.6m ³
Criteria 2 - River Regime Protection (Volumes required for Big Events)	
Second Stage Attenuation Design	
1 Year Storm	48.9m ³
30 Year Storm	121.3m ³
100 Year Storm	161.8m ³

Note: These volumes are not accumulative. The attenuation volume can be reduced by approximately the same amount of the interception and treatment volume as per the Appendix E-5 of the Greater Dublin Strategic Drainage Study - Volume 2.

SuDS Techniques and respective volumes provided to comply with Criteria 1 & 2	
Green Roof with retention system	405m ³
Podium slab with retention system	285m ³
Oversized pipe	161.8m ³

Criteria 3 - Level of Service for the Site
Blocks set at minimum 2.5m OD level following the recommendations of the Flood Risk Assessment and minimum 500mm above the water level of the attenuation system.

Criteria 4 - River Flood Protection
No long term storage is provided

	SITE AREA	14500m ²
	NEW IMPERMEABLE ROOFS	1028m ²
	EXISTING IMPERMEABLE ROOFS	1618m ²
	ROADS & HARDSTANDING	2102m ²
	LANDSCAPED GREEN AREAS	1146m ²
	PROPOSED PERMEABLE PAVING	1047m ²
	GREEN ROOFS WITH RETENTION SYSTEM	4397m ²
	PODIUM WITH RETENTION SYSTEM	3162m ²

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Rev.	Date	Description	By
P2	14/01/20	REVISED AS PER UPDATED ARCHITECTURAL & LANDSCAPE LAYOUT	AL
P1	20/12/19	REVISED AS PER UPDATED ARCHITECTURAL & LANDSCAPE LAYOUT	NMM

Project Title
**DOCKLANDS INNOVATIONS PARK
EAST WALL ROAD, DUBLIN 3**

Architect
MCORM

Date	By	Checked	Scale @ A1
JAN 2020	AL TB	PM	1:250

Drawing Title
SUSTAINABLE DRAINAGE STRATEGY

Drawing Status
PLANNING

Job No.	Drawing No.	Issue
1731	104	P2

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