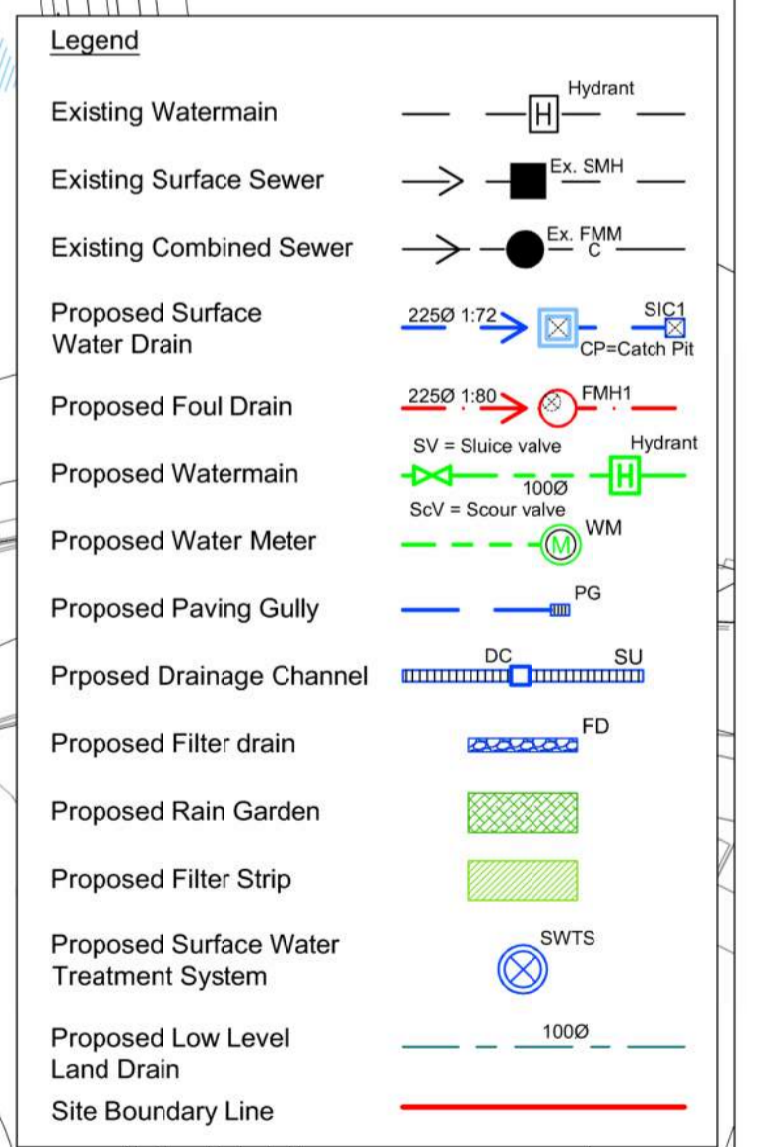
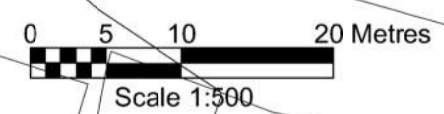


**GENERAL SURFACE WATER MANAGEMENT PLAN**

**Notes:**

- Proposed extensive and intensive greenroof equivalent to 60% of total roof area offering a two-stage treatment train including interception and primary treatment in line with CIRIA Manual C753 Table 26.7  
Run-off from the amenity area at roof level equivalent to 374m<sup>3</sup> or 11% of total roof area will discharge into the proposed greenroofs.  
Therefore a roof area equivalent to 60% of total roof area, will discharge into the proposed extensive and intensive greenroofs providing interception of rainfall, filtration through the medium storage within the voids and evapotranspiration. The remaining 40% will collect roof run-off into the rainwater butts for re-use as irrigation of planting in the amenity roof gardens.
- Run-off from pavement at ground level equivalent to 941m<sup>3</sup> or 13.8% of site area will discharge into the proposed filter drain offering a three-stage treatment train including interception, primary and secondary treatment in line with CIRIA Manual C753 Table 26.7. The proposed filter drain will reduce peak run-off rates prior to discharge into raingardens or surface water drainage system.
- Proposed filter strips will provide interception from impermeable areas before discharge into filter drains. This additional measure will promote sedimentation and filtration thereby providing 2 stage treatment.
- Run-off from pavement at ground level equivalent to 707m<sup>3</sup> or 10.3% of site area will discharge into the proposed raingardens. (Bio-retention system) offering a three-stage treatment train including interception, primary and secondary treatment in line with CIRIA Manual C753 Table 26.7. The proposed raingardens will allow surface water run-off from paved areas to pond temporarily before filtering through vegetation and underlying soils and discharge into the system.
- Discharge to the River Liffey through a proposed surface water treatment system as shown.



**Note:**  
Refer to M&A drawings for Greenroof layouts.

PL3	08/06/21	SB	KD	GS
Issued for Planning (Status A2)				
PL2	11/12/20	SB	KD	KD
Pre-app Submission				
PL1	17/12/19	AB	KD	KD
Planning Issue				
Rev	Date	By	Chkd	Appd



Client: Ruirside Developments Limited

Project Title: Parkgate Street Redevelopment

Drawing Title: Proposed Drainage and Watermain Site Plan Layout

Scale at A1	1:500
Role	Civil
Suitability	A2 - Approved for Planning
Arup Job No	265381-00
Name	PL3
PGATE-ARUP-ZZ-00-DR-CD-0004	