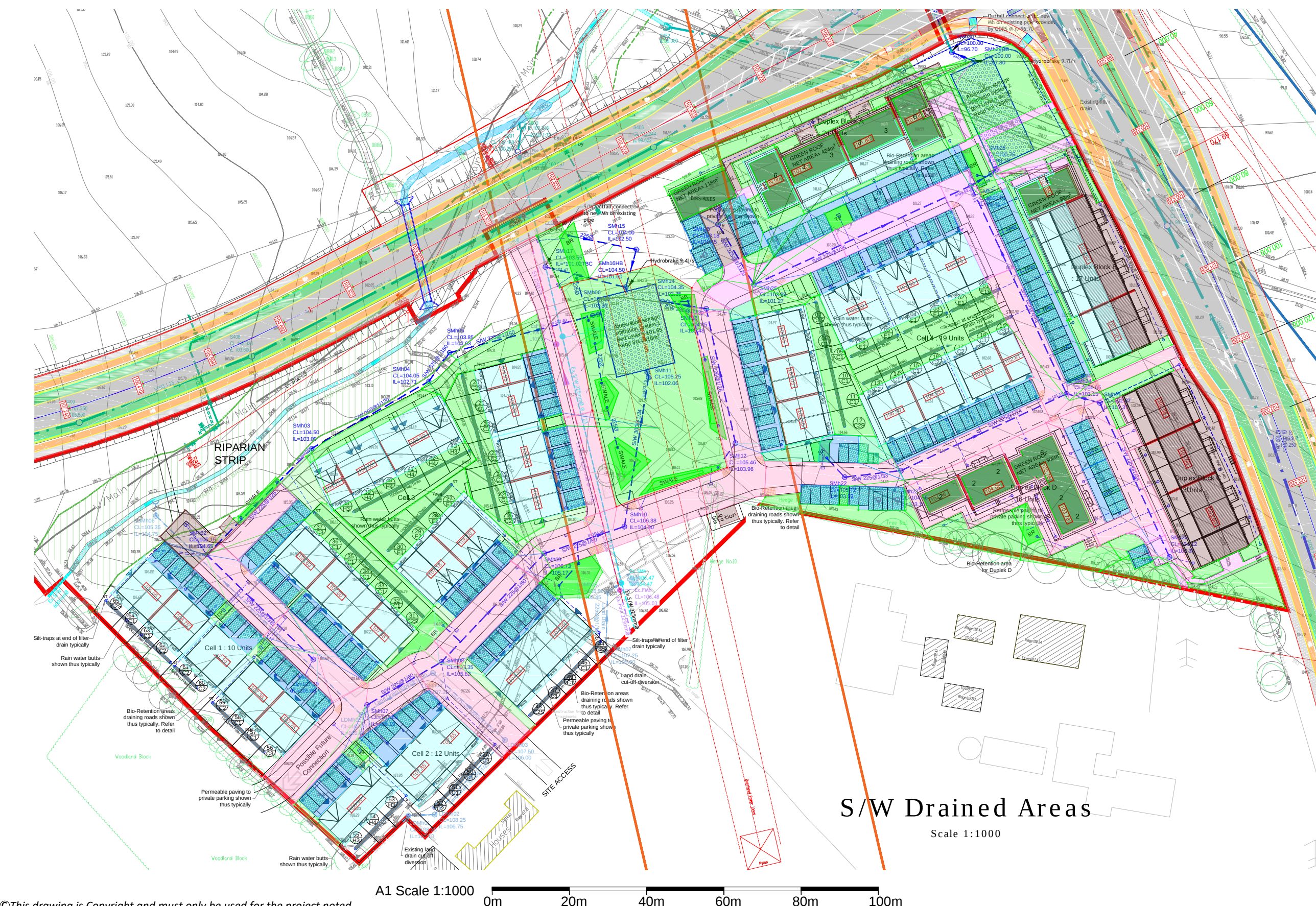
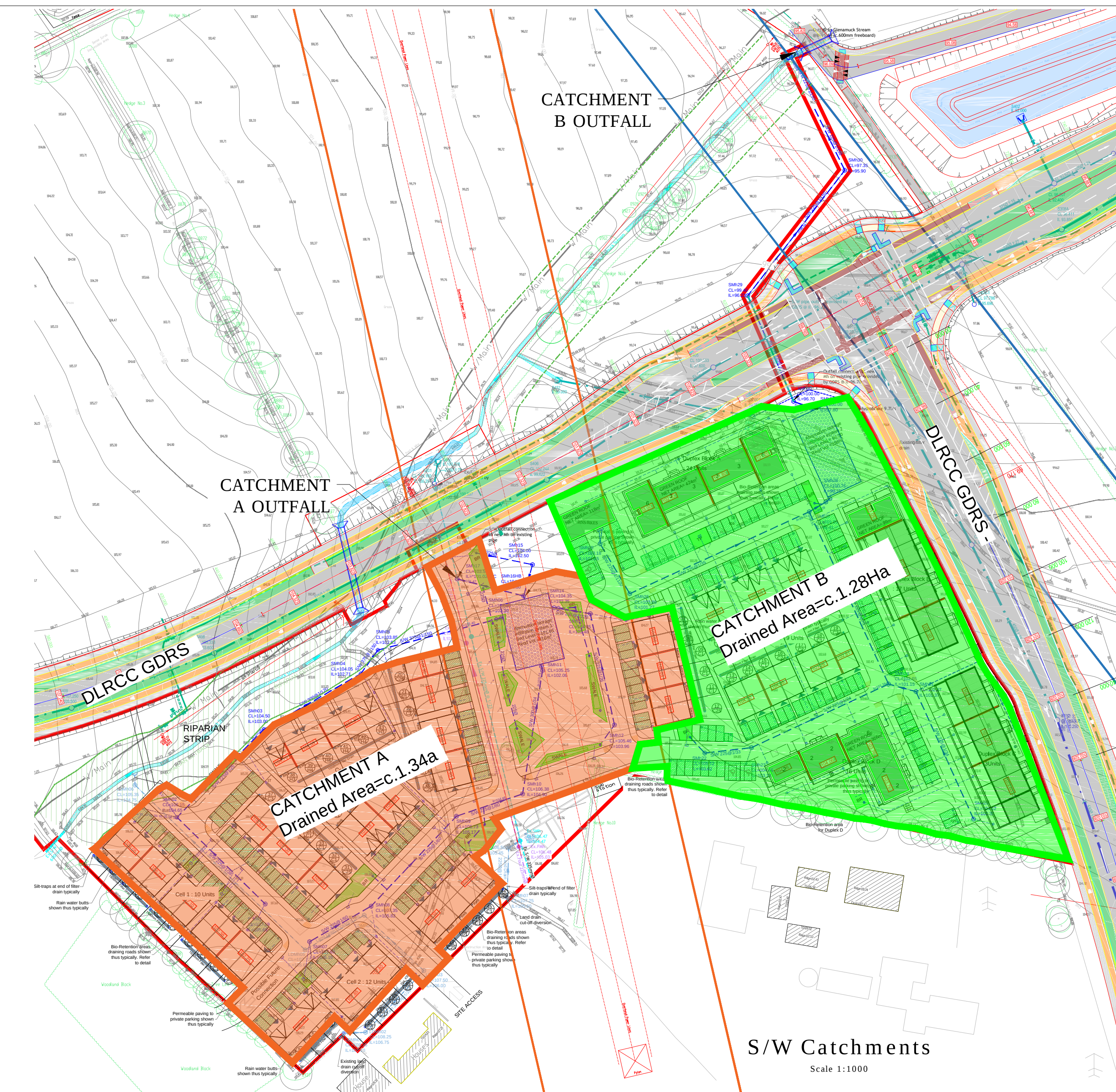
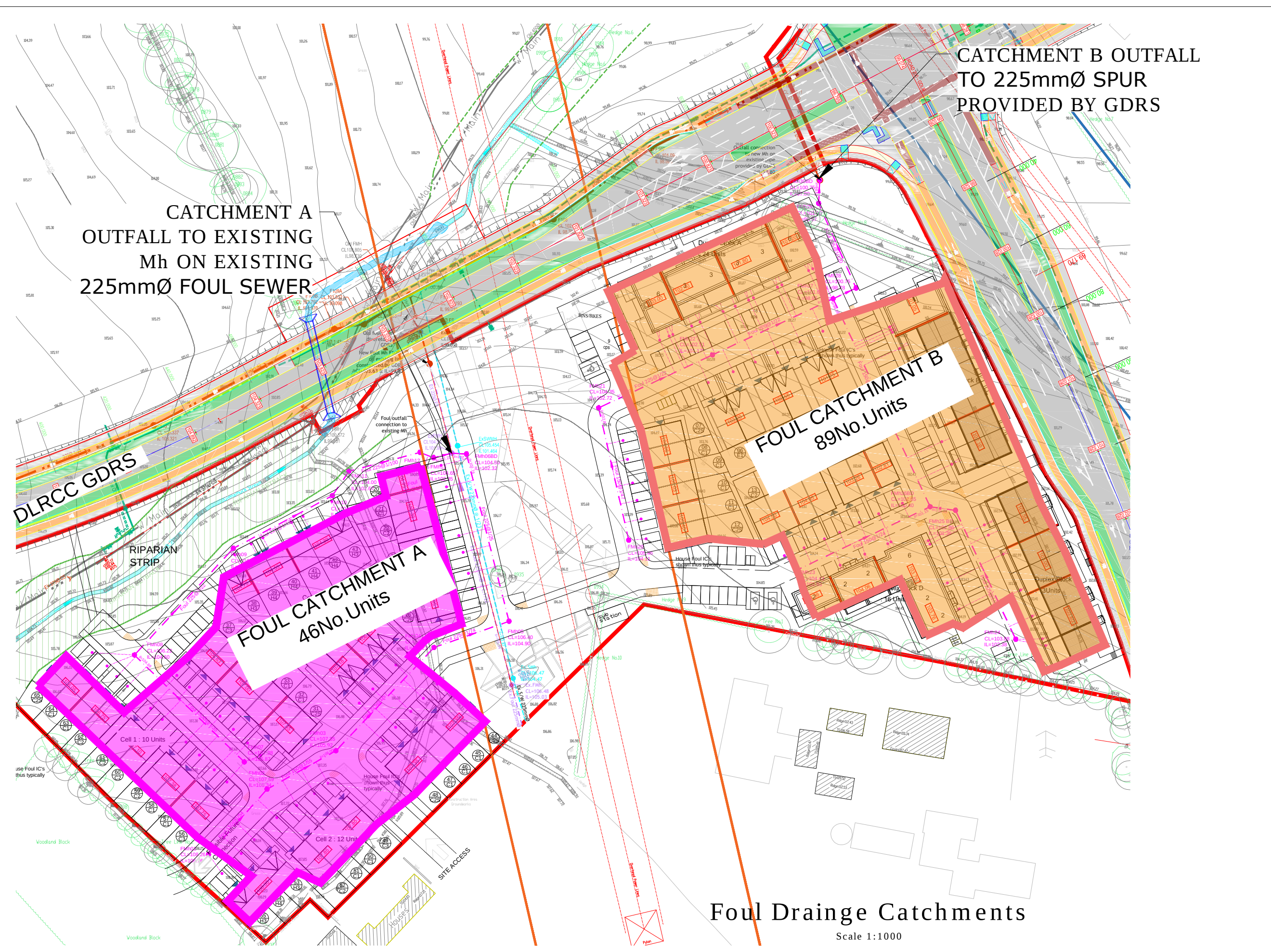




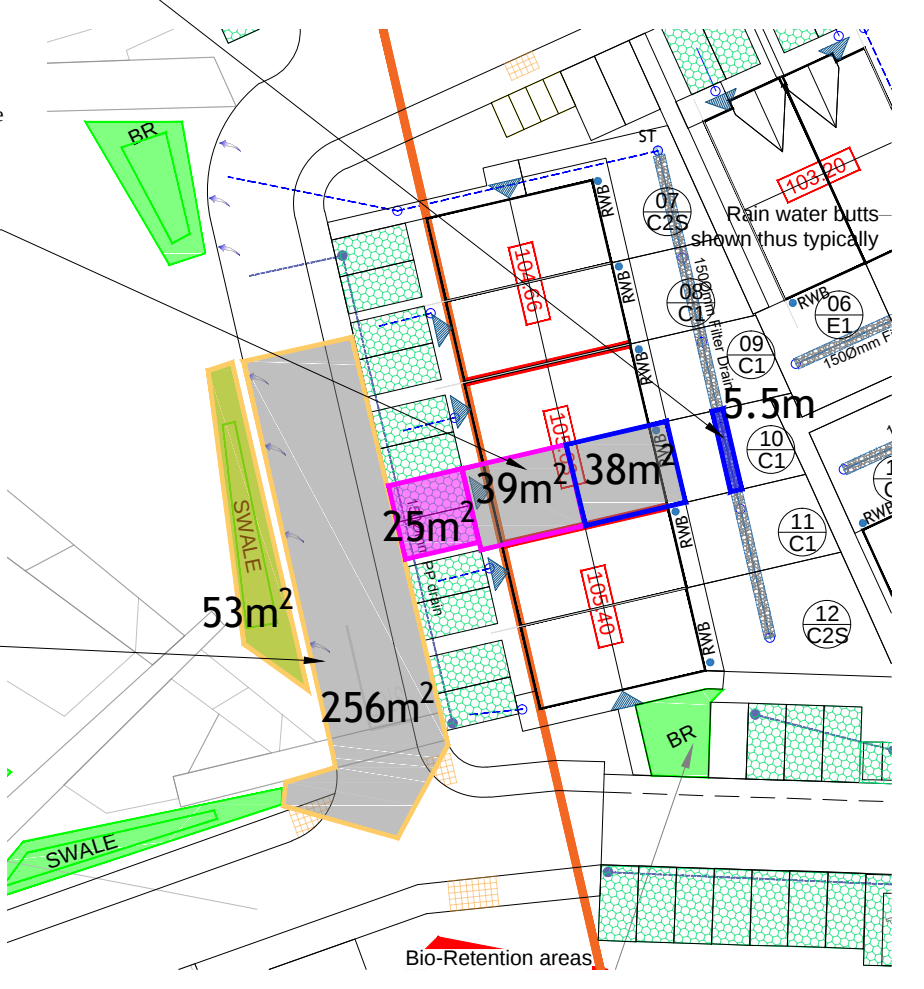
Surface Type	PAF	GROSS AREA (Ha)	NET AREA (Ha)	Colour
Surface to Drains	0.95	0.203	0.193	
Green Roofs(Intensive)	0.83	0.09	0.075	
Roof to Suds	0.71	0.612	0.435	
Road/Paths to SuDS	0.70	0.634	0.444	
Permeable Paving	0.60	0.350	0.210	
Grassland drained	0.40	0.733	0.293	
TOTAL		2.62	1.65	



REAR ROOF AND PATH DRAINING TO FILTER DRAIN :
Area Roof/Path = 38m². Interception volume required as per GSDSDS = 80% of impermeable area for 5mm rainfall, therefore; 38m² x 0.8 x 0.005 = 0.152m³ interception required.
Interception provided in the 150mm depth of 40% voids stone below the 5.5m long x 0.75m wide filter drain as follows;
5.5x0.75x0.15x0.4 = 0.248m³ interception volume provided.
As the 0.248m³ provided is greater than 0.152m³ required, the localised interception is deemed as sufficient.

FRONT ROOF AND PATH DRAINING TO PERMEABLE PAVING :
Area Roof/Path = 39m²
Area Permeable Paving = 25m²
CIRIA Table 4.6 notes 2 times permeable paved area is compliant for interception. Therefore 25m² x 2 = 50m² < 64m² and additional downstream interception is required.
Noting that interception volume required as per GSDSDS = 80% of impermeable area for 5mm rainfall, therefore; 64m² x 0.8 x 0.005 = 0.256m³ interception required.
Interception provided in 30% voids of 300mm stone below perforated drain = 0.3 x 25 x 0.3 = 2.25m³ interception volume provided.
As the 2.25m³ provided is greater than 0.256m³ required, the localised interception is deemed as sufficient.

ROAD DRAINING TO SWALE:
Area Road = 256m²
Area Swale = 53m²
CIRIA Table 4.6 notes 5 times drained area is allowable. Therefore 5 x 53 = 265m² > 256m² is deemed compliant



Sample Localised Interception
Scale 1:500

REV DATE		DESCRIPTION			
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Project GLENAMUCK NORTH LRD					
Drawing Title Drainage Catchments		Architect MCORM			
Date Dec'24	Drawn By RM	Scales 1:1000 @ A1	Dwg.No. 2411/106	Stage LRD Stage 3	Rev