Major Development: Validation Checklist to support Surface Water Drainage Strategy for Full Planning Applications and Reserved Matters as part of Drainage Statement.

Item	Description	Reference (To be completed by applicant)	Submitted (Tick as appropriate)
1	**Site Surveys**		
	A topographical survey of the site, including cross-sections of any adjacent water courses for appropriate distance upstream and downstream of discharge point		
	Details of the existing site layout, drainage system and catchment areas, if appropriate		
	Details of the existing geology and hydrogeology (for sites with high groundwater table)		
	Ground investigations, (including groundwater and contamination), and infiltration tests		
	Surveys of any existing drainage systems or water bodies to which the SuDS may discharge		
2	**Plans**		
	A detailed site layout at an identified scale (with a North point) of the proposed drainage system with catchment areas, including invert levels, cover levels, pipe gradients, flow directions, pipe labels to coincide with hydraulic modelling, outfall locations, control devices, attenuation and conveyance features.		
	Long and cross sections for the proposed drainage system including impermeable areas, attenuation features and conveyance features (at an identified scale)		
	A plan for the management of construction to include; phasing and maintaining the system (including access arrangements, operational characteristics) and the details of any offsite works required, together with any necessary consents period and any impacts, such as diversions and erosion control.		
	A health and safety plan, if appropriate, considering areas of open water and confined space entry		
	Suitable construction details and details of connections (including flow control devices) to discharge points		
	Landscape planting scheme if proposing		

	vegetated drainage system		
	A maintenance plan setting out how to maintain the full drainage system following construction (such details to include maintenance agreement for the lifetime of the development)		
3	**Assessment**		
	Full design calculations and design parameters to demonstrate conformity with the design criteria for the site including greenfield run off rates.		
	An assessment demonstrating flooded areas for the 1 in 100 year storm and 1 in 100 +CC when system is at capacity for the critical storm duration and demonstrating flow paths for design for exceedance		
	Design criteria in relation to/from ground contamination, infiltration tests (to BRE 365), ground water assessments and soil stability		
	Any requirements for temporary drainage features or discharge points during construction (including details of pollution prevention measures)		
	Full hydrological model for proposed drainage network with printouts identifying the critical storm duration for the 1 in 1, 1 in 30, 1 in 100 and 1 in 100 plus climate change.		
4	**Supplementary Evidence**		
	Confirmation of discharge location (proof of third party agreement if appropriate)		
	Confirmation of discharge consent		
	Discharge capacity analysis (where discharging into existing sewers)		