

Major Applications Sustainable Drainage Strategy checklist

Site details

Site name	
Site location and coordinates	
Site description	
Total site area (ha)	
Greenfield/previously developed?	
Existing impermeable area	
Proposed impermeable area	
Type development	

The checklist should be completed by the applicant and submitted as an appendix to the Sustainable Drainage Strategy for the relevant planning application. Failure to provide any of the requested information below may result in delays to the application, and the Lead Local Flood Authority (LLFA) making recommendation for refusal of the planning application on grounds of insufficient information.

Sustainable drainage strategy

A sustainable drainage strategy will be required appropriate to the level of application and the size of the development. Requirements relate to the Somerset SuDS standards, which are available on our website.

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
Documentation validation quick check							
Water quantity statement	Report, calculations, drawings	✓ (prelim)	✓	✓	✓	✓	
Water quality statement	Report, calculations	✓ (prelim)	✓	✓	✓	✓	
Biodiversity statement	Report	✓ (prelim)	✓	✓	✓	✓	
Climate change statement	Report	✓ (prelim)	✓	✓	✓	✓	
Amenity and Health and Safety statement	Report	✓ (prelim)	✓	✓	✓	✓	
Maintenance and operation plan	Report		✓ (prelim)	✓	✓	✓	
Construction method statement	Report			✓	✓	✓	
Layout drawing of the proposed surface water drainage system. To include locations of: SuDS features, manholes, external pipework, attenuation features, and discharge locations	Drawing	✓ (Proof of concept)	✓	✓	✓	✓	
Detailed drawings of proposed features. To include (where applicable): infiltration structures, attenuation features, pumping stations and outfall structures	Drawing		✓ (prelim)	✓	✓	✓	
Map / detailed drawing identifying exceedance routes	Drawing		✓ (map)	✓ (detailed drawing)	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
Sustainable Drainage Strategy detailed checklist							
Water quantity statement							
Standard L1							
Discharge destination, and evidence that discharge from the site has been prioritised according to the drainage hierarchy	Report	✓	✓	✓	✓	✓	
Where infiltration is proposed, evidence of: <ul style="list-style-type: none"> Results of BRE Digest 365 infiltration testing/ground investigation report. Assessment of contamination risks (and evidence of consent from Environment Agency, where required). Desk-based assessment of ground conditions and proof of concept of alternative drainage proposal (if appropriate) 	Report Calculations	✓ (prelim)	✓	✓	✓	✓	
Evidence that the receiving waterbody or system has the necessary capacity and is in appropriate condition to accept discharge.	Report Calculations			✓	✓	✓	
Agreement from the relevant authority to make a connection to the proposed watercourse, sewer or local authority asset.	Report Correspondence		✓ (in principle)	✓ (in principle)	✓ (in principle)	✓	
Confirmation of consultation with the Somerset Consortium of Drainage Boards, where discharge to a watercourse is proposed within, or draining into, an IDB area.	Report Correspondence		✓	✓	✓	✓	
Standard L2: Runoff rate							
Evidence that peak runoff rate from the development for the following events does not exceed peak greenfield runoff rate for the same event: <ul style="list-style-type: none"> 1 in 2-year 1 in 30-year 1 in 100-year 	Report Calculations	✓ (Prelim)	✓ (Prelim)	✓	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
If not feasible, a detailed justification statement demonstrating the maximum achievable betterment on runoff rates and quality	Report Calculations		✓ (Prelim)	✓			
Within the River Tone catchment, evidence that discharge is limited to 2 l/s/ha.			✓ (Prelim)	✓	✓	✓	
Attenuation/pipe full capacity calculations, where use of an existing drainage system within a site is proposed.	Calculations		✓ (Prelim)	✓	✓	✓	
Standard L3: Runoff volume							
Calculation of attenuation volume required for the site, and the proposed discharge method, in line with the SuDS hierarchy.	Calculations	✓ (prelim)	✓ (Prelim)	✓	✓	✓	
Evidence that runoff volume from the development for the 1 in 100-year, 6-hour rainfall event does not exceed the greenfield volume for the same event.	Report Calculations		✓ (Prelim)	✓	✓	✓	
If not feasible, a detailed justification statement demonstrating the maximum achievable betterment on runoff rates and quality	Report Calculations		✓ (Prelim)	✓	✓	✓	
Plan showing where attenuation and long-term storage will be located within the site	Drawing		✓ (Prelim)	✓	✓	✓	
Standard L4: Drain-down time							
Evidence that components are designed to drain down within a suitable timescale (e.g. half-empty 24 hours after a storm event).	Report Calculations			✓	✓	✓	
Standard L5: Climate change and urban creep							
Evidence that the recommended climate change allowance has been applied to post-development runoff	Report Calculations		✓	✓	✓	✓	
Evidence that the recommended 'urban creep' allowance has been applied to post-development runoff and volume calculations	Report Calculations		✓	✓	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
Standard L6 to L8: Flood risk within the development							
Evidence that the SuDS system has been designed to: <ul style="list-style-type: none"> not flood any part of the site for a 1 in 30-year rainfall event; not flood any building or utility plant within the development in a 1 in 100-year plus climate change event retain any flooding within 1 in 100-year plus climate change rainfall event within the site boundary 	Report Calculations		✓	✓	✓	✓	
Statement that safe exceedance routes are provided for rainfall in excess of a 1 in 100-year plus climate change event:	Report	✓	✓	✓	✓	✓	
Basic statement and map showing existing drainage features and flow routes	Drawing	✓	✓				
Map indicating key ground levels and flow routes, design cross sections and depths of exceedance storage areas, modelling of flow routes.	Drawings Calculations			✓	✓	✓	
If not feasible, a detailed justification statement outlining the reason why the standard cannot be met, and how the flood risk will be mitigated.	Report Calculations		✓ (Prelim)	✓			
Identification and mitigation of risks from failure of system components or surcharged / tide locked outfall on the drainage system.	Report			✓	✓	✓	
Drawing to illustrate that attenuation structures are not located within an area at risk of fluvial flooding up to the 1 in 100 plus climate change annual probability event.	Drawing		✓ (prelim)	✓	✓	✓	
Standard L9: Buffer for infiltration SuDS							
Evidence of groundwater monitoring trial pit or borehole investigations showing highest groundwater level is more than 1.0m below the base of proposed infiltration SuDS feature e.g. ground investigation report	Report			✓	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
Desk-based assessment of ground conditions and proof of concept of alternative drainage proposal (if appropriate)	Report	✓ (prelim)	✓				
Water quality statement							
L10: Interception							
Demonstration of how the first 5mm of rainfall will be intercepted and treated using source control methods.	Report Calculations	✓ (prelim)	✓	✓	✓	✓	
L11: Treatment train approach							
Appropriate water quality assessment: Low to medium hazard level sites (e.g. residential, commercial) <ul style="list-style-type: none"> CIRIA SuDS Manual Simple Index Approach calculations. High hazard level sites (e.g. industrial): <ul style="list-style-type: none"> detailed risk assessment (may be as part of Water Framework Directive compliance assessment) Evidence of environmental permits, where required. 	Report Calculations Report Calculations		✓ ✓	✓ ✓	✓ ✓	✓ ✓	
Evidence of consultation with the appropriate regulator, for sites draining to sensitive water bodies (e.g. SSSIs, SDBC).	Report Correspondence	✓	✓	✓	✓	✓	
Biodiversity statement							
L12: Vegetated SuDS							
Evidence that maximum use has been made of vegetated SuDS in the design and use of piped networks, underground tanks and end-of-pipe storage solutions has been minimised. If not feasible, a detailed justification statement outlining an alternative proposal which still delivers benefits.	Report Drawings Report Drawings	✓ (prelim) ✓ (prelim)	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
L13: Contribute to meeting local and national policy on biodiversity							
Statement demonstrating how SuDS contribute to national and local policy on biodiversity	Report	✓ (prelim)	✓ (prelim)	✓	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
	Calculations						
Climate change statement							
L14: Climate change resilience							
Evidence that SuDS will contribute to <ul style="list-style-type: none"> Carbon sequestration (e.g. trees) Moderation of temperatures through evaporative cooling, reflection and shading through use of water and vegetation in the built environment. 	Report	✓ (prelim)	✓ (prelim)	✓	✓	✓	
Statement of how the operation and maintenance of the SuDS system will be impacted by climate change over the lifetime of the development and how any impacts will be minimised.	Report			✓	✓	✓	
Amenity and health and safety statement							
L15: Multifunctional use of space							
Evidence that the proposed SuDS are integrated into the landscape design, and are accessible to future residents.	Report Drawings	✓ (prelim)	✓	✓	✓	✓	
Evidence that opportunities have been taken to provide recreation and promote education, health and wellbeing.	Report	✓ (prelim)	✓	✓	✓	✓	
L16: Safety							
Evidence that the proposed drainage components are designed for safety following CIRIA SuDS Manual design criteria	Report Drawings	✓ (prelim)	✓	✓	✓	✓	
Designer's Risk Assessment under CDM regulations	Report		✓	✓	✓	✓	
Maintenance and Operation Plan							
L17: Easy/passive maintenance							
Maintenance and Operation Plan (See the Maintenance pages of our website for more detail) covering the proposed drainage system over its lifetime	Report		✓ (prelim)	✓	✓	✓	
Whole life maintenance costs provided for the proposed drainage system	Report			✓	✓	✓	

Evidence required	Format of evidence	Pre-application	Outline	Full	Reserved Matters	Discharge of conditions	Validated
Agreement from potential adopting body of adoption of the proposed system and acceptance of operation and maintenance costs.	Report, letter/email correspondence	✓ (consideration)	✓ (in principle)	✓ (in principle)	✓ (in principle)	✓ (written confirmation)	
L18: Pumping							
If it is not possible to design a solution without using pumping, a detailed justification statement explaining why pumping is required, detailed plans for maintenance of the pump, and how the risk of pump failure will be mitigated.	Report	✓ (prelim)	✓	✓	✓	✓	
Construction Method Statement							
L19: Manage surface water runoff in the construction stage							
Construction method statement outlining consideration of ecological and water quality impacts, phasing of development, the proposed strategy for sediment control and site drainage during construction, and any remedial works before the system becomes operational	Report			✓	✓	✓	
Agreed temporary measures to prevent flooding to the site and surrounding area prior to completion of the drainage system.	Report			✓	✓	✓	
Record of all necessary consents obtained for on or off-site works.	Certificate or letter/email correspondence			✓	✓	✓	