Typologies- urban intensive

Typical development	Block development - City centre and immediate peripheral valley bottom uses, outer commercial centres – Flats, offices, shops, leisure
Management	Privately managed infrastructure
Criteria	Typically 30 % reduction for discharge rates to be applied for sites where existing discharge is above 10 litres/sec minimum. Likely discharge to the combined sewer. Possible discharge to surface water sewer or watercourse if economically proportionate when greenfield discharge may be required
Typical SuDS solutions	Green roofs, water harvesting, storage tanks, courtyard planters, permeable paving
Pre application	Limited benefit apart from to establish discharge rates
Application	Concise SuDS design statement to outline drainage solution
Conditions	Detailed calculations Detailed design Confirmation of management arrangements, E.g. management company, schedule of maintenance







Typologies- urban extensive

Typical development	Larger supermarkets, retail, extensive office, factories, operational, schools, leisure
Management	Privately managed, Yorkshire Water may adopt tanks, may include offsite Council managed features
Criteria	30% reduction for brownfield, greenfield for greenfield sites or redevelopment where to different discharge route. Potential for discharge to surface water sewer and possibly watercourse
Typical SuDS solutions	Concrete block permeable paving for car parks – lined for storage where contamination or discharge to sewer, non-lined for infiltration or partial infiltration where direct discharge to watercourse. Can act to store roof water through horizontal diffuser pipes in sub-base or surface inflow removing need for other storage. Landscape requirements - potential to be integrated and enhanced through SuDS function, e.g. linear green verges / planting designed to intercept lateral run-off from impermeable surfaces. Larger open spaces and peripheral landscapes within or external to the site for detention basins /ponds
Pre application	Benefit in ensuring optimum site layout to accommodate SuDS inclusion. Establishing likely discharge rates
Application	SuDS design statement should demonstrate SuDS approach /options analysis. Drainage solution should show approximate volumes from development, methods of collection, movement, treatment and storage. Confirmed discharge routes. The presence of sub-catchments with distributed controls for SuDS at different scales. Management arrangements for any features if any outside the applicants responsibility, e.g. offsite detention basin
Conditions	Detailed calculations Detailed design Confirmation of management arrangements for all drainage infrastructure – who responsible for what features, resourcing, schedule of maintenance











Typologies- Suburban

Typical development	Housing – small to large estates of varying densities
Management	Considerable range from individual dwelling, management company, Yorkshire Water, Highway Authority and other Sheffield Council services.
Criteria	30% reduction for brownfield, greenfield for greenfield sites or redevelopment where to different discharge route. Potential for discharge to surface water sewer, watercourse. Infiltration dependent on ground conditions and risk assessment
Typical SuDS solutions	Concrete block permeable paving for adopted highway and private car parks – lined for storage where contamination or discharge to sewer, non-lined for infiltration or partial infiltration where direct discharge to watercourse. Can act to store roof water through above ground inflow or horizontal diffuser pipes in sub-base removing need for other storage. Landscape requirements potential to be integrated and enhanced through SuDS function , e.g. linear green verges / planting designed to intercept lateral run-off from impermeable surfaces. Larger open spaces and peripheral landscapes within or external to the site for detention basins /ponds
Pre application	Benefit in ensuring optimum site layout to accommodate SuDS inclusion and discussion of adoption options. Establishing likely discharge rates.
Application	SuDS design statement should demonstrate SuDS approach /options analysis. Drainage solution should show approximate volumes from development, methods of collection, movement, treatment and storage. Confirmed discharge routes. The presence of sub-catchments with distributed controls for SuDS at different scales Management arrangements for all features.
Conditions	Detailed calculations Detailed design Confirmation of management arrangements for all drainage infrastructure – who responsible for what features, resourcing, schedule of maintenance





