1. Project & Site Details		
	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Morrisons Supermarket
	Address & post code	41-67 High Street, Yiewsley, West Drayton, UB7 7QQ
	OS Grid ref. (Easting, Northing)	E 506047
		N 180347
	LPA reference (if applicable)	2370/APP/2023/1727
	Brief description of proposed work	Phased demolition of the existing buildings and the redevelopment of the site for a replacement foodstore (Class E), 158 residential units (Class C3), car parking, servicing and access arrangements and associated works.
	Total site Area	5200 m^2
	Total existing impervious area	5096 m^2
	Total proposed impervious area	m^2
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No
	Existing drainage connection type and location	No surface water drainage connection: discharge through 2 soakaways
	Designer Name	W. Hansard
	Designer Position	Director
	Designer Company	Ward Cole Ltd

2. Proposed Discharge Arrangements			
	2a. Infiltration Feasibility		
	Superficial geology classification	Langley Silt Member – Clay and Silt	
	Bedrock geology classification	London Clay Formation – Clay, Silt and Sand	
	Site infiltration rate	0.000905	m/s
	Depth to groundwater level	6	m below ground level
	Is infiltration feasible?	Yes	
	2b. Drainage Hierarchy		
		Feasible (Y/N)	*Proposed (Y/N)*
	1 store rainwater for later use	Y	Y
	2 use infiltration techniques, such as porous surfaces in non-clay areas	Y	N
	3 attenuate rainwater in ponds or open water features for gradual release	N	N
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
	5 discharge rainwater direct to a watercourse	Y	N
	6 discharge rainwater to a surface water sewer/drain	N	N
	7 discharge rainwater to the combined sewer.	N	N
	2c. Proposed Discharge Details		
	Proposed discharge location	On site	
	Has the owner/regulator of the discharge location been consulted?	N/A	

3. Drainage Strategy

3a. Discharge Rates & Required Storage

	Greenfield (GF) runoff rate (l/s)	*Existing discharge rate (l/s)*	*Required storage for GF rate (m^3)*	*Proposed discharge rate (l/s)*
Qbar	0.82			
1 in 1	0.7	0		0
1 in 30	1.89	0		0
1 in 100	2.63	0		0
1 in 100 + CC			100	0
Climate change allowance used		40%		
3b. Principal Method of Flow Control				

3c. Proposed SuDS Measures

	Catchment area (m^2)	*Plan area (m^3)*	*Storage vol. (m^3)*
Rainwater harvesting	830		50
Infiltration systems	3080		64
Green roofs	1660	1600	0
Blue roofs	0	0	0
Filter strips	0	0	0
Filter drains	0	0	0
Bioretention / tree pits	0	0	0
Pervious pavements	0	0	0
Swales	0	0	0
Basins/ponds	0	0	0
Attenuation tanks	2340		106
Total	**7910**	**1600**	**220**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Appendix H
Drainage hierarchy (2b)	Page 12
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Pages 12-13, Appendix E
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Appendix F
Proposed SuDS measures & specifications (3b)	Pages 12-13
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	Submitted by Architect
Detailed drainage design drawings, including exceedance flow routes	Appendix E, Drainage Strategy Plan only, detailed drawings to be produced and submitted later
Detailed landscaping plans	Submitted by Architect
Maintenance strategy	Pages 13-14
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Fuel interceptors & infiltration
b) biodiversity?	Green roofs and soft landscaping
c) amenity?	Green roofs and soft landscaping