Camden

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1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	The Hall School
Address & post code	The Hall School, 23 Crossfield Road ,Belsize Park, London, NW3 4NU
OS Grid ref. (Easting, Northing)	E 526943
	N 184516
LPA reference (if applicable)	
Brief description of proposed work	Rooftop extension
Total site Area	299 m^2
Total existing impervious area	299 m^2
Total proposed impervious area	299 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	Existing gravity connection to Thames Water combined sewer
Designer Name	Harry Hunter
Designer Position	Senior civil Engineer
Designer Company	Elliott Wood

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	None
Bedrock geology classification	Thames Group
Site infiltration rate	m/s
Depth to groundwater level	m below ground level
Is infiltration feasible?	No

2b. Drainage Hierarchy

	Feasible (Y/N)	*Proposed (Y/N)*
1 store rainwater for later use	N	N
2 use infiltration techniques, such as porous surfaces in non-clay areas	N	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	N	N
5 discharge rainwater direct to a watercourse	N	N
6 discharge rainwater to a surface water sewer/drain	N	N
7 discharge rainwater to the combined sewer.	Y	Y

2c. Proposed Discharge Details

Proposed discharge location	xisting below ground drainage network on s
Has the owner/regulator of the discharge location been consulted?	Yes

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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	0.13			
1 in 1	0.11	4.9	72	1.1
1 in 30	0.3	11.9	72	3
1 in 100	0.41	15.5	87	5.4
1 in 100 + CC			n/a	7.7
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Geen Roof		

3c. Proposed SuDS Measures

	Catchment area (m^2)	*Plan area (m^2)*	*Storage vol. (m^3)*
Rainwater harvesting	0		0
Infiltration systems	0		0
Green roofs	299	241	7.2
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	0		0
Total	**299**	**241**	**7.2**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Section 5
Drainage hierarchy (2b)	Section 5
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Section 5
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Section 5
Proposed SuDS measures & specifications (3b)	Section 5
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	Section 4
Detailed drainage design drawings, including exceedance flow routes	Section 5
Detailed landscaping plans	Section 4
Maintenance strategy	Section 6
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Section 5
b) biodiversity?	Section 5
c) amenity?	Section 5