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1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	Project Oriel, Moorfields Eye Hospital
Address & post code	St Pancras Way, London, NW1 0PE
OS Grid ref. (Easting, Northing)	E 529654 N 183642
LPA reference (if applicable)	
Brief description of proposed work	The proposed development comprises a single building, which ranges from 7 to 9 storeys, with a lower ground floor and a covered atrium
Total site Area	7850 m^2
Total existing impervious area	7520 m^2
Total proposed impervious area	7850 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	Connected to Thames Water combined public sewer via private combined drainage network. See drawings with
Designer Name	Roddy Prayag
Designer Position	Principal Infrastructure Engineer
Designer Company	AECOM Ltd

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	Not available on BGS maps: not expected - brownfield site likely to have made ground over London Clay
Bedrock geology classification	London Clay
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	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	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	ee drawings with Appendix E of FRADS fo
Has the owner/regulator of the discharge location been consulted?	Thames Water: results show Thames Wate

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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	2.9			
1 in 1	2.4	74.8	97-143	11.2
1 in 30	6.5	129.7	208-284	19.5
1 in 100	9.2	137.6	266-358	20.6
1 in 100 + CC			408-542	20.6
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Vortex flow control unit		

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	0	0	0
Blue roofs	0	0	0
Filter strips	0	0	0
Filter drains	0	0	0
Bioretention / tree pits	0	0	0
Pervious pavements	720	720	130
Swales	0	0	0
Basins/ponds	0	0	0
Attenuation tanks	7560		280
Total	**8280**	**720**	**410**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Desk Study details as shown in FRADS - section 3.3
Drainage hierarchy (2b)	Details shown in FRADS - section 8.
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Details shown in FRADS - section 8
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Details shown in FRADS - section 8
Proposed SuDS measures & specifications (3b)	Details shown in FRADS - section 8
4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	Details shown in FRADS - Appendix
Detailed drainage design drawings, including exceedance flow routes	Details shown in FRADS - Appendix
Detailed landscaping plans	See planning application
Maintenance strategy	Details shown in FRADS - section 8.
Demonstration of how the proposed SuDS measures improve:	
a) water quality of the runoff?	Details shown in FRADS - section 8.
b) biodiversity?	Details shown in FRADS - section 8
c) amenity?	Details shown in FRADS - section 8