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|---------------------------|---|--|
| 1. Project & Site Details | Project / Site Name (including sub-catchment / stage / phase where appropriate) | Roundhouse Campus Building Chalk Farm Road, Camden Stage 4 |
| | Address & post code | Roundhouse Chalk Farm Road London NW1 8EH |
| | OS Grid ref. (Easting, Northing) | E 528205 N 184364 |
| | LPA reference (if applicable) | |
| | Brief description of proposed work | Construction of a new camous building providing studio space, meeting room and communal working space in the existing service yard of the Roundhouse |
| | Total site Area | 687 m ² |
| | Total existing impervious area | 687 m ² |
| | Total proposed impervious area | 556 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 | Combined sewer in Chalk Farm Road via branch connection |
| | Designer Name | David Perkins |
| | Designer Position | Associate |
| Designer Company | Momentum Consulting Engineers | |

| | | | |
|---|--|-----------------------|----------------------|
| 2. Proposed Discharge Arrangements | 2a. Infiltration Feasibility | | |
| | Superficial geology classification | London Clay formation | |
| | Bedrock geology classification | | |
| | Site infiltration rate | 0.0000016 | m/s |
| | Depth to groundwater level | 3.9 | m below ground level |
| | Is infiltration feasible? | No | |
| | 2b. Drainage Hierarchy | | |
| | | Feasible (Y/N) | Proposed (Y/N) |
| | 1 store rainwater for later use | Y | N |
| | 2 use infiltration techniques, such as porous surfaces in non-clay areas | Y | Y |
| | 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 | Chalk Farm road via existing connection | | |
| Has the owner/regulator of the discharge location been consulted? | Yes | | |

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 | 0.29 | | | |
| 1 in 1 | 0.25 | 12 | 9 | 2 |
| 1 in 30 | 0.68 | 28 | 19 | 2 |
| 1 in 100 | 0.94 | 35 | 24 | 2 |
| 1 in 100 + CC | | | 35 | 2 |
| Climate change allowance used | | 40% | | |
| 3b. Principal Method of Flow Control | | Hydro brake | | |
| 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 | | 191 | 191 | 20 |
| Blue roofs | | 0 | 0 | 0 |
| Filter strips | | 0 | 0 | 0 |
| Filter drains | | 0 | 0 | 0 |
| Bioretention / tree pits | | 0 | 0 | 0 |
| Pervious pavements | | 102 | 66 | 14 |
| Swales | | 0 | 0 | 0 |
| Basins/ponds | | 0 | 0 | 0 |
| Attenuation tanks | | 394 | | 27 |
| Total | | 687 | 257 | 61 |

| 4. Supporting Information | 4a. Discharge & Drainage Strategy | Page/section of drainage report |
|---------------------------|---|--|
| | Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results | STL J14197 The Roundhouse Site Investigagtion and Risk Assessment Report Pg 16 |
| | Drainage hierarchy (2b) | ument 2796_MOM_RH_DNT-610 Appe |
| | Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location | ument 2796_MOM_RH_DNT-610 Appe |
| | Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations | ument 2796_MOM_RH_DNT-610 Appe |
| | Proposed SuDS measures & specifications (3b) | ument 2796_MOM_RH_DNT-610 Appe |
| | 4b. Other Supporting Details | Page/section of drainage report |
| | Detailed Development Layout | Drawings 2796-601 |
| | Detailed drainage design drawings, including exceedance flow routes | Drawings 2796-601 |
| | Detailed landscaping plans | Refer to Architects details |
| | Maintenance strategy | ument 2796_MOM_RH_DNT-610 Appe |
| | Demonstration of how the proposed SuDS measures improve: | Refer to Architects Information |
| | a) water quality of the runoff? | |
| | b) biodiversity? | |
| | c) amenity? | |