## 1. Project & Site Details

| | |
|---|---|
| Project / Site Name (including sub-catchment / stage / phase where appropriate) | Land Adjacent to No 86 Camlet Way, Hadley Wood |
| Address & post code | Land Adjacent to No 86 Camlet Way, Hadley Wood, London, EN4 0NX |
| OS Grid ref. (Easting, Northing) | E 525774 |
| | N 197645 |
| LPA reference (if applicable) | 22/00627/FUL |
| Brief description of proposed work | Creation of a new 2 storey dwelling, with accommodation in the roof space, means of access with associated parking and landscaping |
| Total site Area | 660 $m^2$ |
| Total existing impervious area | 0 $m^2$ |
| Total proposed impervious area | 290 $m^2$ |
| Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)? | No |
| Existing drainage connection type and location | None |
| Designer Name | Phil Tomes |
| Designer Position | Director |
| Designer Company | Infrastructure Design Ltd |

## 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* | 0.3 | | | |
| *1 in 1* | 0.2 | 0 | 12 | 2 |
| *1 in 30* | 0.7 | 0 | 12 | 2 |
| *1 in 100* | 0.9 | 0 | 12 | 2 |
| *1 in 100 + CC* | | | | |
| *Climate change allowance used* | | 40% | | |

| | |
|---|---|
| 3b. Principal Method of Flow Control | Utilising adjacent pump station with existing 2 litres/sec discharge rate. |

### 3c. Proposed SuDS Measures

| | *Catchment area ($m^2$)* | *Plan area ($m^3$)* | *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 | 130 | 130 | 12 |
| Swales | 0 | 0 | 0 |
| Basins/ponds | 0 | 0 | 0 |
| Attenuation tanks | 160 | | 12 |
| **Total** | **290** | **130** | **24** |

## 2. Proposed Discharge Arrangements

### 2a. Infiltration Feasibility

| | |
|---|---|
| Superficial geology classification | None |
| Bedrock geology classification | London Clay Formation |
| Site infiltration rate | 0 m/s |
| Depth to groundwater level | 15 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 | Y | Y |
| 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 | Y | Y |
| 7 discharge rainwater to the combined sewer. | N | N |

### 2c. Proposed Discharge Details

| | |
|---|---|
| Proposed discharge location | sting Pump Station located at No 86 Camlet W |
| Has the owner/regulator of the discharge location been consulted? | YES |

## 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) | Appendix B |
| Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location | Appendix G |
| Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations | Main Body |
| Proposed SuDS measures & specifications (3b) | Main Body and Appendix D |
| **4b. Other Supporting Details** | *Page/section of drainage report* |
| Detailed Development Layout | Appendix D |
| Detailed drainage design drawings, including exceedance flow routes | Appendix D |
| Detailed landscaping plans | NA |
| Maintenance strategy | Appendix J |
| Demonstration of how the proposed SuDS measures improve: | Main Body |
| a) water quality of the runoff? | |
| b) biodiversity? | |
| c) amenity? | |