

Tavis House, 1-6 Tavistock Square,

Title: London, WC1H 9NA Approved:

Author: Keri Trimmer **Civil Engineering** Discipline:

Note Ref: 2200531-EWP-ZZ-XX-TN-0001

| revision: | P4 | prepared by: | Keri Trimmer | checked by: | Paul Davis | approved by: | Paul Davis |
|-----------|----------|-----------------|--------------|-------------|------------|--------------|------------|
| date: | 22.03.24 | signature: | Kher | signature: | TOAH | signature: | TORM |

Date

19.03.24

Introduction 1.1

This Surface Water Drainage Statement has been prepared in support of an application at Tavis House, 1-6 Tavistock Square, London, WC1H 9NA for Section 73 amendments for:-

"Variation of condition 2, 9, 13 and 15 approved under planning permission reference 2021/6105/P on 1 December 2023 for 'Refurbishment and extension of the existing building to provide new entrances, a new roof top pavilion, roof top plant equipment and enclosures, rear extension and cycle parking associated with Class E use together with new hard and soft landscaping and other ancillary works'. NAMELY amendments to external rear facades, rooftop plant and other associated works."

Planning permission for a similar scheme was approved on 1 December 2023 under reference 2021/6105/P for the:

"Refurbishment and extension of the existing building to provide new entrances, a new roof top pavilion, roof top plant equipment and enclosures, rear extension and cycle parking associated with Class E use together with new hard and soft landscaping and other ancillary works".

This S73 application has been submitted to allow the building to be used for flexible lab-enabled space resulting in changes to the rear façade and roof top level to allow for additional plant associated with laboratories. This report has been prepared as an addendum to the approved document to capture minor changes to the building in respect of the proposed blue roof.

This report should be read in conjunction with the site-specific Flood Risk Assessment undertaken by Elliott Wood, reference 2200531-EWP-ZZ-XX-RP-C-0001. The purpose of this technical note is to explain the existing drainage arrangements and the approach taken with regards to the site wide SuDS strategy.

1.2 Site Location

The site is located within the London Borough of Camden (LBC). It is located to the north of the junction between Tavistock Square and Tavistock Place, opposite Tavistock Square Gardens. The site is located approximately 550m to the southeast of London Euston National Rail station. The River Thames runs approximately 1,800m to the southeast of the site. The site centred OS grid reference is 529973E: 182345N.





Figure 1: Site Location Plan

1.3 Existing Development

The existing building fronts Tavistock Square & Tavistock Place and consists of a lower ground floor, ground floor, 8 storeys above ground floor and a roof plant pavilion. The site also includes an external parking / delivery area to the east of the existing building.

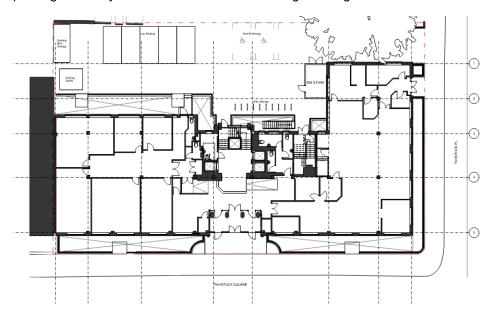


Figure 2: Existing Site Plan

The total area of the existing site is approximately 1,450m², of which approximately 1,000m² is occupied by the building footprint. The entire site is considered to be positively drained impermeable area in the existing scenario.



1.4 Topography

Existing site surveys have been undertaken by Plowman Craven June 2021; drawings can be found in **Appendix A**. This shows the following levels:

- Existing Basement Level = Approx. 21.76m AOD
- Front Lightwell (Tavistock Square) = Approx. 22.20-22.30m AOD
- External Ground Level = Approx. 24.50m- 24.70m AOD

External levels generally fall away from building entrances at ground floor level and the external areas drain to a low point in the centre of the existing car park.

1.5 Underlying Geology

By inspection of existing British Geological Survey (BGS) borehole data at nearby locations and our understanding of local ground conditions in the area; the following ground conditions are anticipated to be present on site. Site investigations will be required to verify the anticipated underlying geology.

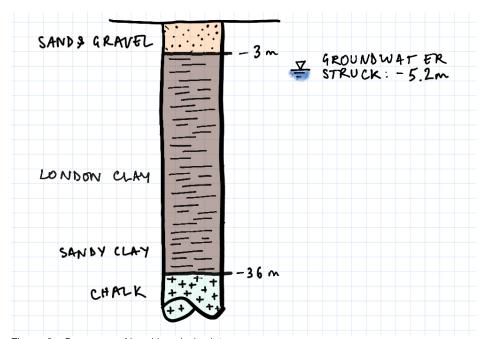


Figure 3 - Summary of local borehole data



1.6 Existing Drainage

Public sewer records have been obtained from Thames Water. An extract of the asset plan is shown in Figure 4.

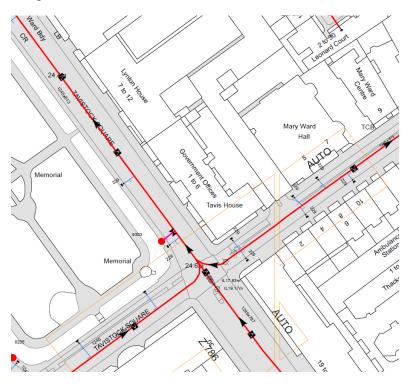


Figure 4 - Thames Water - Sewer Records

Records show that 1245x813mm combined water sewers are located within Tavistock Square and Tavistock Place, to the south and west of the site. The sewers in Tavistock Place converge at the junction with Tavistock Square before running along Tavistock Square in a north westerly direction.

An additional 1245x787mm combined water sewer connects at the junction between Tavistock Square and Tavistock Place from Woburn Place. Thames Waters sewer records are presented in full within **Appendix B**.

1.7 Existing Site-Wide Drainage Network

A CCTV survey of the site-wide private drainage network was undertaken by GO Drainage in September 2021. Extracts from the CCTV report can be found within **Appendix C**. The existing site currently drains both foul water and surface water via a single 225mm diameter combined water outfall pipe, which connects into the offsite Thames Water sewer beneath Tavistock Square.

The existing private drainage network is located predominantly at lower ground floor level, with the demarcation manhole located within the lightwell fronting Tavistock Square. There is an existing gully network within the ground floor external parking / delivery area, which connects into the head of the lower ground floor drainage network. An existing grease trap was identified in the eastern lightwell which was found to be surcharged at the time of visit.

The existing drainage network was found to consist of cast iron pipework and concrete manhole chambers, some of which are located internally within the buildings lower ground floor.





1.8 Existing Surface Water Run-Off

The surface water run-off rate from the existing site has been calculated using the Modified Rational method based on the following average rainfall intensities.

Table 1: Average Rainfall Intensity (15 min Storm Duration)

| Return Period | Av. Rainfall Intensity (mm/hr) | |
|----------------|--------------------------------|--|
| 1 Year | 31.70 | |
| 30 Year | 79.90 | |
| 100 Year | 101.90 | |
| 100 Year + 40% | 142.60 | |

Based on a positively drained area of 1,450m² the surface water run-off rate for the existing scenario are as follows, refer to **Appendix D** for brownfield site run-off calculations.

Table 2: Existing Surface Water Run-Off Rate

| Return Period | Run-Off (I/s) | |
|----------------|---------------|--|
| 1 Year | 12.5 | |
| 30 Year | 31.4 | |
| 100 Year | 40.0 | |
| 100 Year + 40% | 56.1 | |

1.9 Proposed Development

The proposed development can be described as follows:

"Refurbishment and extension of the existing building to provide new entrances, a new roof top pavilion, roof top plant equipment and enclosures, rear extension and cycle parking associated with Class E use together with new hard and soft landscaping and other ancillary works'. NAMELY amendments to external rear facades, rooftop plant and other associated works."

The number of storeys remains as per the existing approved 2021 scheme.



Figure 5 - Proposed Scheme

Refer to the Architects proposed plans for further details.





1.10 Requirement for Sustainable Drainage Systems (SuDS)

Refer to **Appendix E** for the proposed drainage drawings.

We understand that the proposals have been classed as a minor development. Therefore, the introduction of SuDS is not a necessity, nor is meeting Camden thresholds for surface water run-off reductions. Opportunities for SuDS devices have however been explored for the building.

The SuDS strategy has previously been approved and conditioned as part of planning application 2021/6015/P dated 1st December 2023. The condition related to SuDS was as follows:

SuDS: Further details Prior to commencement of above ground works (excluding demolition and site preparation works), full details of the sustainable drainage system [including 666sqm blue roof at 8th and 9th floor level] shall be submitted to and approved in writing by the local planning authority. Such a system should be designed to accommodate all storms up to and including a 1:100 year storm with a 40% provision for climate change such that flooding does not occur in any part of a building or in any utility plant susceptible to water, or on any part of the entire development site for up to and including a 1:30 year storm. The details shall demonstrate a run-off rate conforming to the greenfield run-off rate or other rate of 1.3l/s approved by the Local Planning Authority. An up to date drainage statement, SuDS pro-forma, a lifetime maintenance plan and supporting evidence should be provided including: "The proposed SuDS or drainage measures including storage capacities "The proposed surface water discharge rates or volumes Systems shall thereafter be retained and maintained in accordance with the approved details.

It should be noted that since this condition was imposed the roof layout has changed to accommodate plant associated with a lab-enabled building and subsequently the extent of blue roof and the achievable run-off rates also need to be revised. The updated strategy looks to break the blue roof into 4 sections as per the image below (blue hatch).



Figure 6 - Extent of proposed blue roof (hatched blue)





It is proposed to install a blue roof system over the 8th floor, 9th floor and top roof level. It is not possible to install a blue roof across the 8th floor terrace (hatched red in Figure 6), as the build-up needs to be minimised across this footprint in order to achieve sufficient height in the lab space below.

The proposed blue roof coverage and catchments are shown in Table 3. The table also shows the surface water run-off that would be generated from each area should no blue roof be installed.

Table 3: Blue Roof Run-Off Rates

| Blue Roof Reference | Level | Catchment Area | Blue Roof Coverage | Run-off in 1 in 100 year + 40% CC (I/s) | Equivalent Run-off in 1 in 100 year + 40% CC (I/s) – If Blue Roof Wasn't Installed |
|------------------------|-----------------------|-------------------|-----------------------|---|--|
| Blue Roof 1 | 8 th Floor | 310m ² | 280m ² | 0.84 | 12.0 |
| Blue Roof 2 | Top Roof | 137m² | 100m ² | 0.37 | 5.3 |
| Blue Roof 3 | 9 th Floor | 98m² | 72m² | 0.26 | 3.8 |
| Blue Roof 4 | 9 th Floor | 195m² | 136m² | 0.53 | 7.5 |
| Totals: | | 740m² | 588m² | 2.0 l/s | 28.6 l/s (97% betterment) |

Refer to **Appendix F** for blue roof hydraulic calculations, which are based on a 97mm deep blue roof system. As can be seen from the table above the total blue roof extent proposed (588m²) has reduced slightly from the previous conditioned strategy (666m²) and due to the need to fragment the roof sections the run-off rate has also slightly increased. However these changes are driven by the revised layout, the principle of the strategy remains, which is to install a blue roof wherever possible. Exceedance flows will remain unchanged from the existing site.

The strategy overall is deemed to be a significant betterment when compared to the existing scenario.



1.11 SuDS / Drainage Maintenance Strategy

All drainage and any potential SuDS will be maintained by the building management company for the lifetime of the development in accordance with the SuDS Manual as summarised below.

Modular System / Blue Roofs (If installed)

| Maintenance Schedule | Required Action | Recommended Frequency | |
|-------------------------|--|--|--|
| | Inspect and identify any areas that are not operating correctly. If required, take remedial action. | Monthly for 3 months, then six monthly | |
| Regular | Debris removal from catchment surface (where may cause risks to performance) | Monthly | |
| | Remove sediment from pre- treatment structures | Annually, or as required | |
| Remedial actions | Repair/rehabilitation of inlets, outlets, overflows and vents | As required | |
| Monitoring | Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed | Annually and after large storms | |

Gullies / Linear channels

Inspection and removal of debris from silt trap once a year; preferably after leaf fall in the autumn.

Drainage pipes, manholes and silt traps

Inspect manholes & silt traps for build-up of silt and general debris once a year; preferably after leaf fall in the autumn. If silt/debris is building up, then clean with jetting lorry / gully sucker and inspect pipe – repeat cleaning if required. If the pipes to be jetted are plastic then a high flow, low pressure setting should be used so that the pipes are not damaged.

Unusual / unresolved problems

If the drainage system is still holding water following cleaning with a jetter, or the jetting of the system removes excessive amounts of debris this may indicate greater issues within the system. A CCTV survey is likely to be required and further advice should be sought from a drainage engineer.

NOTE: Manhole covers can be heavy and suitable lifting equipment / procedures should be used. Where possible, personnel should not enter manholes to carry out maintenance.

1.12 Pro Formas

Refer **Appendix G** for the relevant drainage Pro Forma.



1.13 Foul Water Drainage

It is proposed that foul drainage from the new development drains to the existing Thames Water sewer beneath Tavistock Square as per the existing arrangement. A capacity enquiry has been submitted to Thames Water who have confirmed the offsite sewer network has capacity to drain the development.

1.14 Conclusion

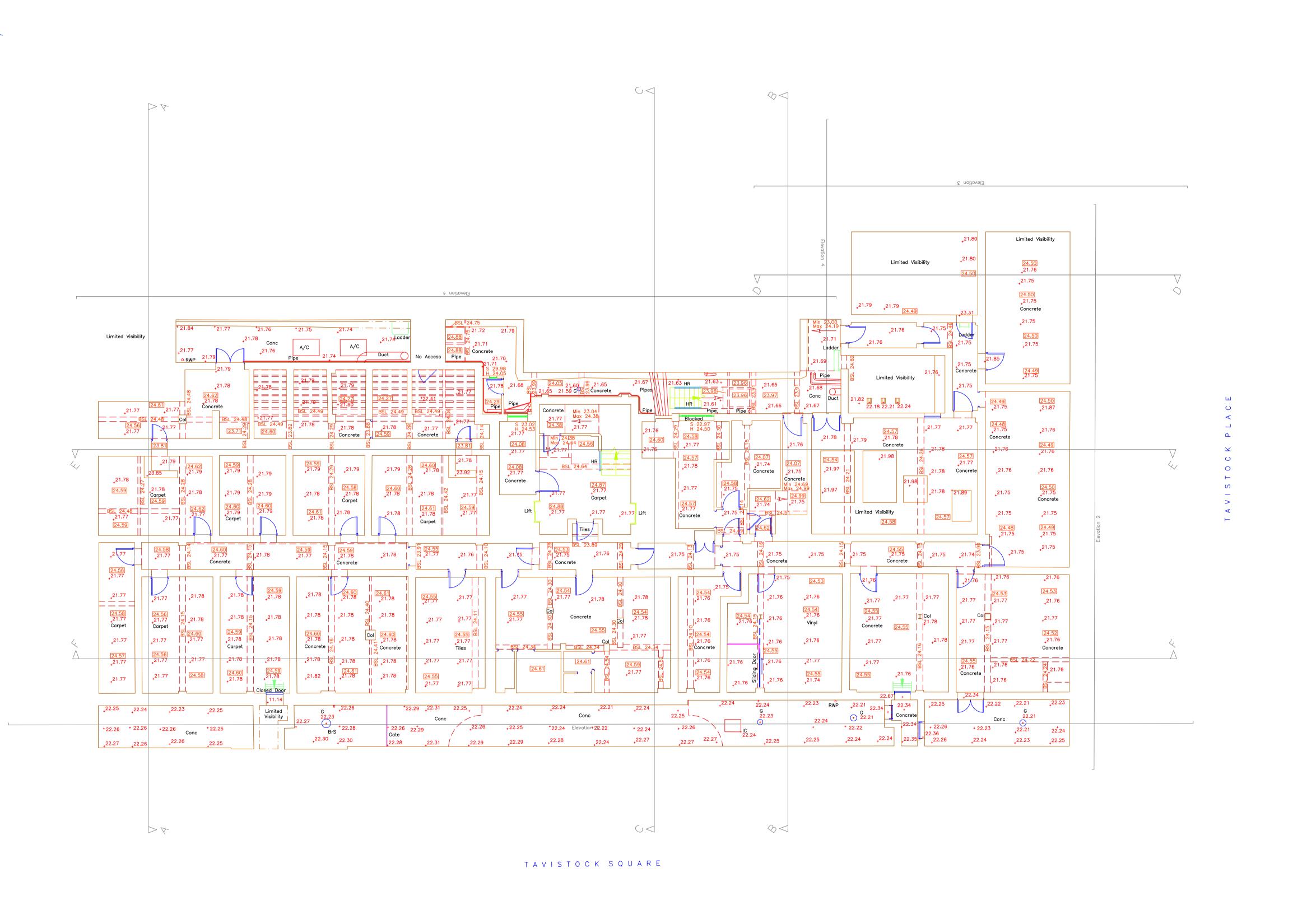
As the scheme proposals have been classed as a minor development, the introduction of SuDS is not a necessity, nor is meeting Camden thresholds for surface water run-off reductions. Opportunities for SuDS devices have however been explored.

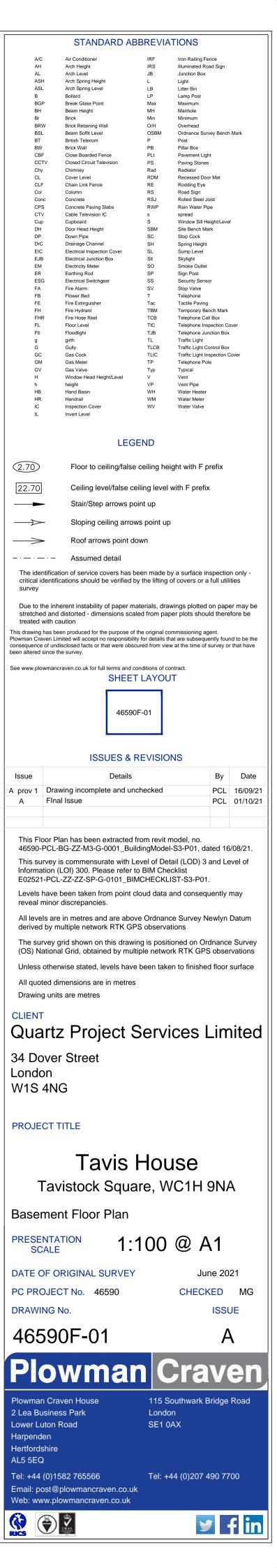
It is proposed to install a blue roof system over the 8th floor, 9th floor and top roof level.

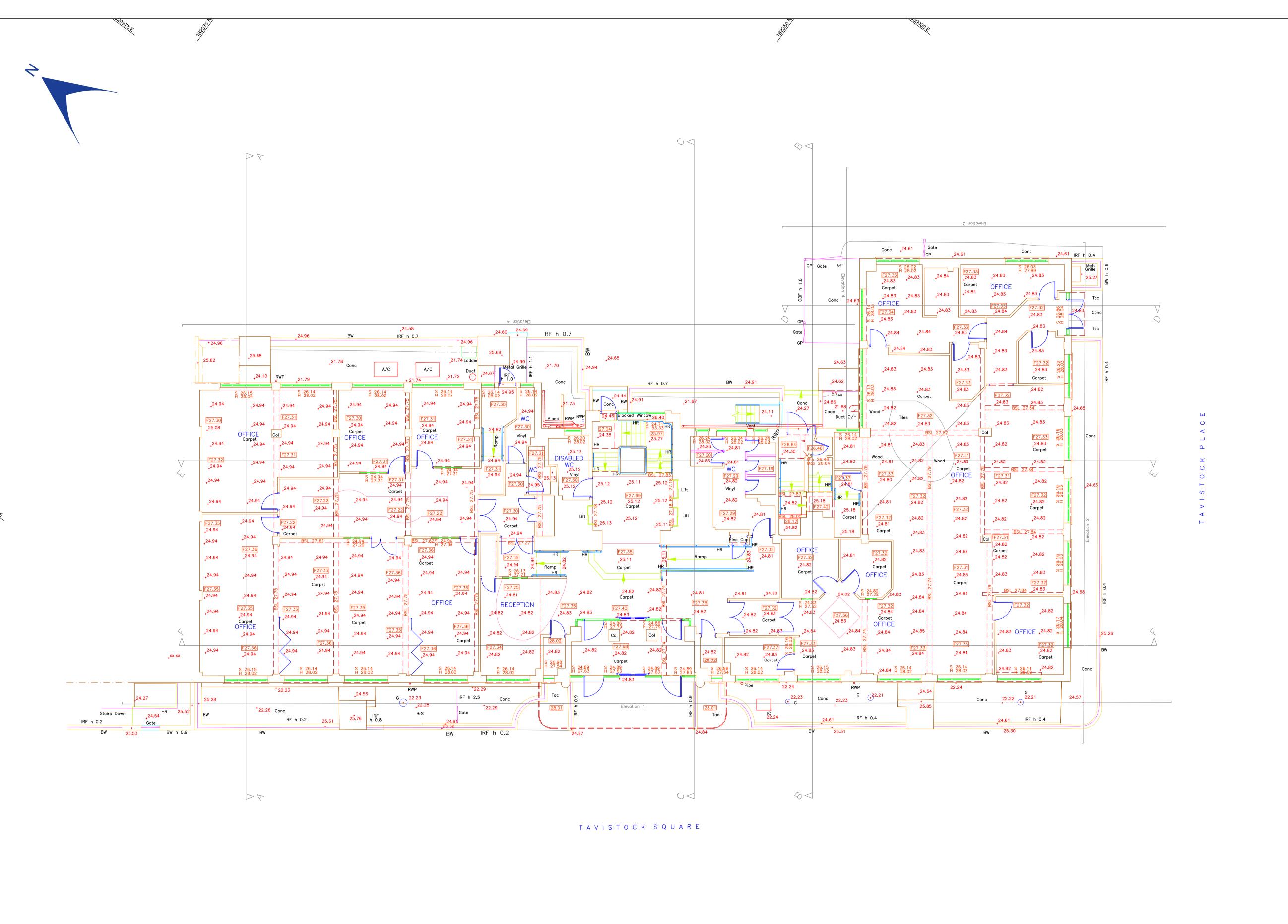
The implementation of a blue roof over the noted roof areas will restrict run-off for a catchment of 740m², from what would have been a rate of 28.60 l/s down to 2.0 l/s.

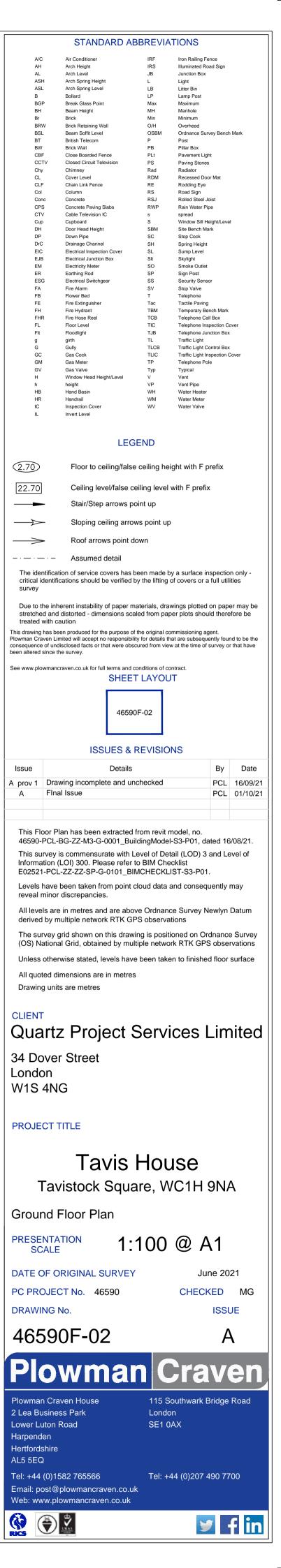
elliottwood

Appendix A – Topographical Survey









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Appendix B – Thames Water Records



Elliott Wood Partnership Limited LONDON W1W 7TY

Search address supplied Law Centres Network

Tavis House 1-6 Tavistock Square

London WC1H 9NA

Your reference 1-6 Tavistock Square

Our reference ALS/ALS Standard/2021_4419903

Search date 5 May 2021

Knowledge of features below the surface is essential for every development

The benefits of this knowledge not only include ensuring due diligence and avoiding risk, but also being able to ascertain the feasibility of any development.

Did you know that Thames Water Property Searches can also provide a variety of utility searches including a more comprehensive view of utility providers' assets (across up to 35-45 different providers), as well as more focused searches relating to specific major utility companies such as National Grid (gas and electric).

Contact us to find out more.



Thames Water Utilities Ltd Property Searches, PO Box 3189, Slough SL1 4WW DX 151280 Slough 13



searches@thameswater.co.uk www.thameswater-propertysearches.co.uk





Search address supplied: Law Centres Network, Tavis House 1-6, Tavistock Square, London, WC1H 9NA

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This searchprovides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Contact Us

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0800 009 4540, or use the address below:

Thames Water Utilities Ltd Property Searches PO Box 3189 Slough SL1 4WW

Email: searches@thameswater.co.uk

Web: www.thameswater-propertysearches.co.uk



Waste Water Services

Please provide a copy extract from the public sewer map.

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0800 316 9800. The Customer Centre can also arrange for a full flow and



pressure test to be carried out for a fee.

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public
 water mains in the vicinity of the property. It should be possible to estimate the
 likely length and route of any private water supply pipe connecting the property to
 the public water network.

Payment for this Search

A charge will be added to your suppliers account.



Further contacts:

Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water) Thames Water Clearwater Court Vastern Road Reading RG1 8DB

Tel: 0800 009 3921

Email: developer.services@thameswater.co.uk

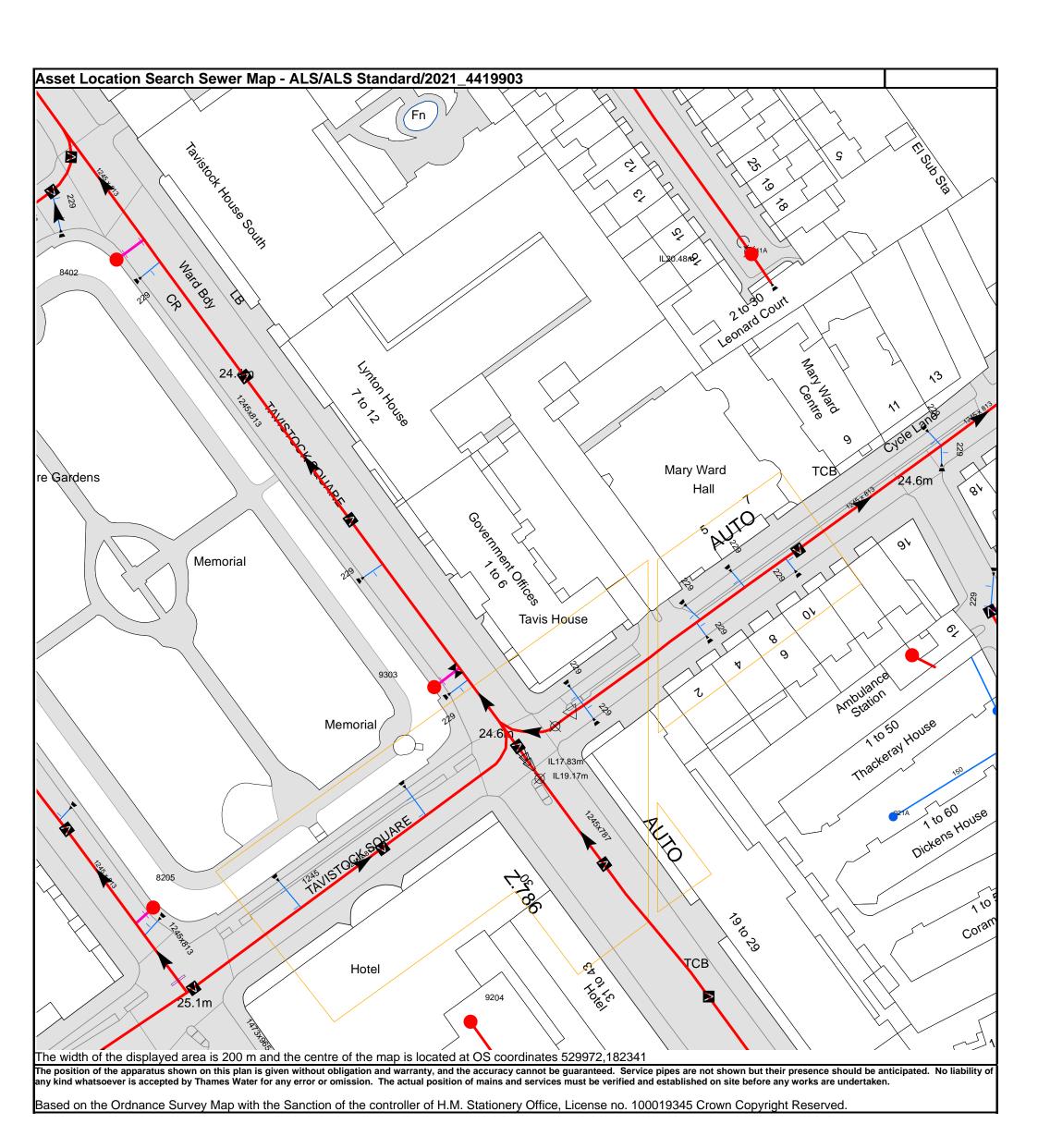
Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

Developer Services (Clean Water) Thames Water Clearwater Court Vastern Road Reading RG1 8DB

Tel: 0800 009 3921

Email: developer.services@thameswater.co.uk



<u>Thames Water Utilities Ltd</u>, Property Searches, PO Box 3189, Slough SL1 4W, DX 151280 Slough 13 T 0800 009 4540 E searches@thameswater.co.uk | www.thameswater-propertysearches.co.uk

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|-------------------|---------------------|----------------------|
| 031A | n/a | n/a |
| 8402 | n/a | n/a |
| 8205 | n/a | n/a |
| 9303 | n/a | n/a |
| 9204 | 24.98 | 21.47 |
| 041A | n/a | n/a |
| 021A | n/a | n/a |
| 03DI | n/a | n/a |
| | | |
| | | |

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

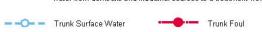


Public Sewer Types (Operated & Maintained by Thames Water)

Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.

-- O-- Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.

Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.















Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

Air Valve

Dam Chase

Meter

Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

Control Valve

Drop Pipe

Ancillary

Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

Outfall



Undefined End

Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

Public/Private Pumping Station

Change of characteristic indicator (C.O.C.I.)

Summit

Areas

Lines denoting areas of underground surveys, etc.

Agreement

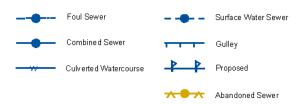
Operational Site

Chamber

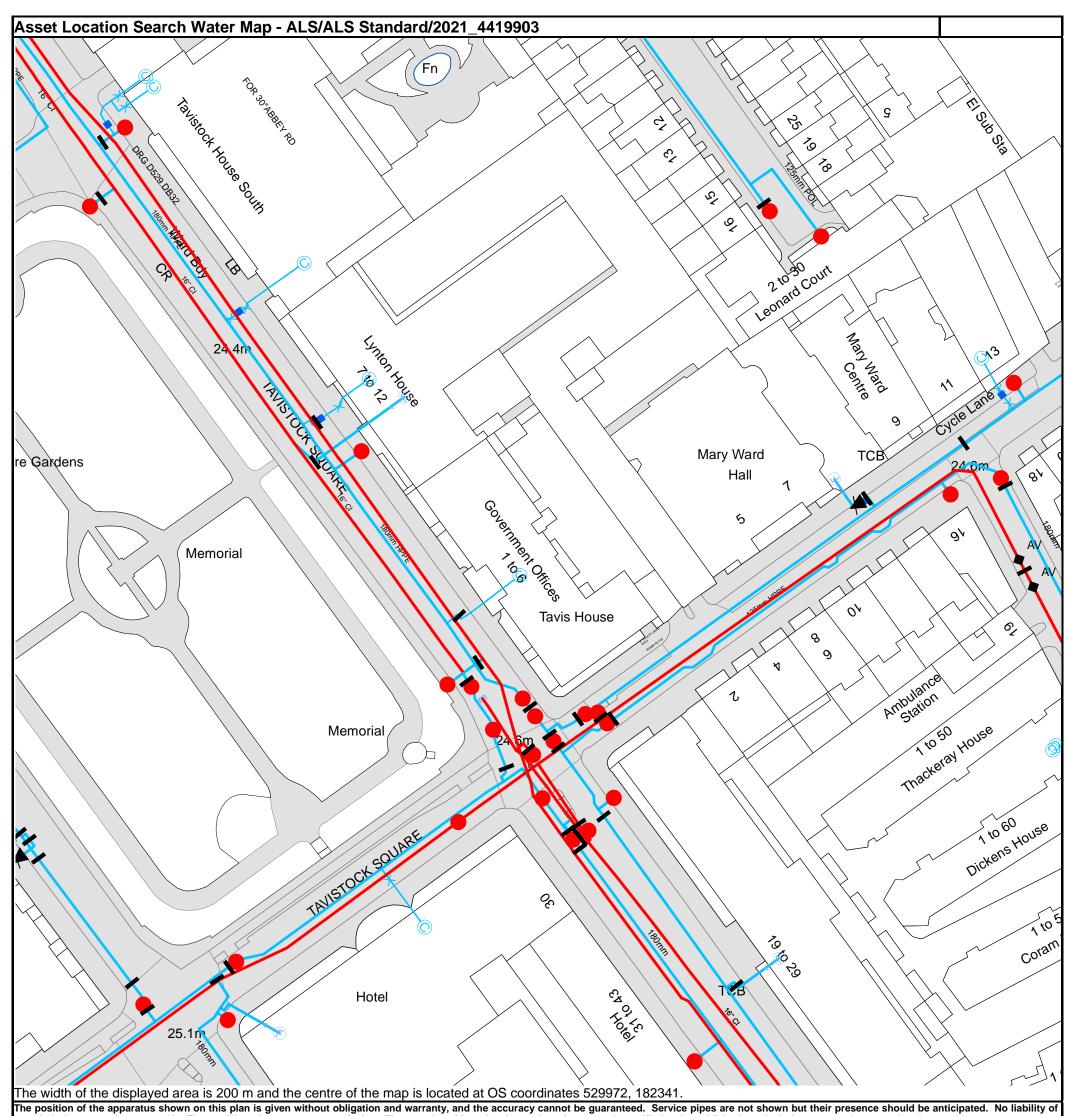
Tunnel

Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)



6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Searches on 0800 009 4540.



any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.



Water Pipes (Operated & Maintained by Thames Water)

| | (Operated a maintained by mained vater) |
|------------|---|
| 4" | Distribution Main: The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains. |
| 16" | Trunk Main: A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers. |
| 3" SUPPLY | Supply Main: A supply main indicates that the water main is used as a supply for a single property or group of properties. |
| 3° FIRE | Fire Main: Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe. |
| 3° METERED | Metered Pipe: A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown. |
| | Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided. |
| | Proposed Main: A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main. |

| PIPE DIAMETER | DEPTH BELOW GROUND | | |
|-----------------------------|--------------------|--|--|
| Up to 300mm (12") | 900mm (3') | | |
| 300mm - 600mm (12" - 24") | 1100mm (3' 8") | | |
| 600mm and bigger (24" plus) | 1200mm (4') | | |

Valves Operational Sites General PurposeValve **Booster Station** Air Valve Other Pressure ControlValve Other (Proposed) Customer Valve **Pumping Station** Service Reservoir **Hydrants Shaft Inspection** Single Hydrant Treatment Works Meters Unknown Meter Water Tower **End Items Other Symbols** Symbol indicating what happens at the end of L a water main. Data Logger Blank Flange Capped End **Emptying Pit** Undefined End Manifold **Customer Supply**

Fire Supply

Other Water Pipes (Not Operated or Maintained by Thames Water) Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them. Private Main: Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

- 1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
- 2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
- 3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
- 4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
- 5. In case of dispute TWUL's terms and conditions shall apply.
- 6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
- 7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
- 8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.

Ways to pay your bill

| Credit Card | BACS Payment | Telephone Banking | Cheque |
|--|--|--|---|
| Call 0800 009 4540 quoting your invoice number starting CBA or ADS / OSS | Account number 90478703 Sort code 60-00-01 A remittance advice must be sent to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW. or email ps.billing@thameswater. co.uk | By calling your bank and quoting: Account number 90478703 Sort code 60-00-01 and your invoice number | Made payable to 'Thames Water Utilities Ltd' Write your Thames Water account number on the back. Send to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW or by DX to 151280 Slough 13 |

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.



Keri Trimmer

Elliott Wood 55 Whitfield Street London W1T 4AH



14 January 2022

Pre-planning enquiry: Confirmation of sufficient capacity

Site: Tavis House, Tavistock Square, London, WC1H 9NA

Dear Keri,

Thank you for providing information on your development.

Existing site: offices (6903m²) Proposed site: offices (7897m²)

Proposed foul water discharge by gravity to Tavistock Square Combined Sewer

1245mmx813mm

We have completed the assessment of the foul water flows based on the information submitted in your application with the purpose of assessing sewerage capacity within the existing Thames Water sewer network.

Foul Water

If your proposals progress in line with the details you've provided, we're pleased to confirm that there will be sufficient sewerage capacity in the adjacent combined sewer network to serve your development.

This confirmation is valid for 12 months or for the life of any planning approval that this information is used to support, to a maximum of three years.

You'll need to keep us informed of any changes to your design – for example, an increase in the number or density of homes. Such changes could mean there is no longer sufficient capacity.

Surface Water

In accordance with the Building Act 2000 Clause H3.3, positive connection of surface water to a public sewer will only be consented when it can be demonstrated that the hierarchy of disposal methods have been examined and proven to be impracticable. Before we can consider your surface water needs, you'll need written approval from the lead local flood authority that you have followed the sequential approach to the disposal of surface water and considered all practical means.



When developing a site, policy SI 13 of the London Plan states "Development proposals should aim to achieve greenfield run-off rates and ensure that surface water run-off is managed as close to its source as possible. There should also be a preference for green over grey features, in line with the following drainage hierarchy:".

The disposal hierarchy being:

- 1. rainwater use as a resource (for example rainwater harvesting, blue roofs for irrigation)
- 2. rainwater infiltration to ground at or close to source
- 3. rainwater attenuation in green infrastructure features for gradual release (for example green roofs, rain gardens)
- 4. rainwater discharge direct to a watercourse (unless not appropriate)
- 5. controlled rainwater discharge to a surface water sewer or drain
- 6. controlled rainwater discharge to a combined sewer

Where connection to the public sewerage network is still required to manage surface water flows, we will accept these flows at a discharge rate in line with CIRIA's best practice guide on SuDS or that stated within the sites planning approval.

Please see the attached 'Planning your wastewater' leaflet for additional information.

What happens next?

Please make sure you submit your connection application, giving us at least 21 days' notice of the date you wish to make your new connection/s.

If you have any further questions, please contact me on 0800 009 3921.

Kind Regards,

Leigh Khan

Developer Services – Adoptions Engineer

Tel: 0800 009 3921

developer.services@thameswater.co.uk

Get advice on making your sewer connection correctly at connectright.org.uk

Clearwater Court, Vastern Road, Reading, RG1 8DB Find us online at <u>developers.thameswater.co.uk</u>



Appendix C- CCTV Survey

