

KEY

SUDDS FEATURES

	PERMEABLE PAVING Total area: 1308m ²
	EXTENSIVE GREEN ROOF Total area: 1348m ²
	RAIN GARDENS Total area: 143m ²

TYPICAL MAINTENANCE ADVICE

Permeable paving

Under normal conditions, a permeable pavement will work perfectly well with none-to-little maintenance, but if it does need cleaning, it's a very simple process:

- Ensure that any joints don't get blocked. (Avoid placing loose materials onto the surface - this could block joints).
- Every 12 months, undertake a visual inspection to detect detritus and silt build up.
- Gently sweep joints with a stiff brush to clean surface and dislodge any build-up in joints.
- Remove any excessive vegetation growth in the joints manually. Avoiding using herbicides.
- In winter months, pure rock salts as a de-icer is preferred - avoid salts which contain abrasive sand or grit.

Rain gardens

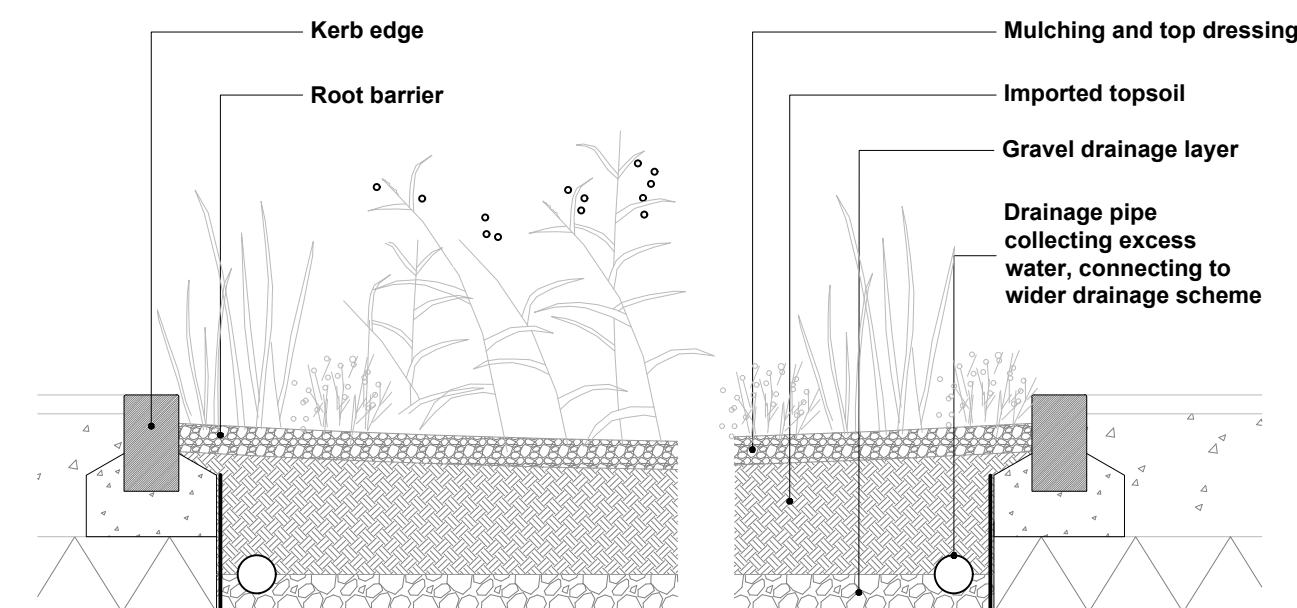
- Mulching - keeps soils moist, reducing watering, reduces weed growth.
- Adding compost material - as required to retain water and maintain nutrients.
- Vegetation management - remove and replace dead plants.
- Weeding - ensure root removal.
- Litter removal.
- Inlet/ outlet cleaning.
- Watering - plants should be drought tolerant, but may need some assistance in long periods of heat and dryness.

Extensive/ Intensive green roofs

All roofs require a minimum of two inspections a year to ensure that the outlets etc are maintained, regardless of the type of green roof.

- An extensive green roof will need only minimal maintenance to ensure that any unwanted species do not become established.
- An intensive green roof will require the regular maintenance associated with the planting scheme and landscape design.

- Vegetation management - over time a green roof can become congested with leaves, debris and other unwanted vegetation.
- Weeding - ensure you remove roots.
- Inlet/ outlet cleaning.
- Watering - plants will need watering regularly to establish. Extensive roofs should not require additional watering. Intensive roofs will require a more regular watering regime, especially during periods of prolonged heat and dryness.
- Application of a slow-release fertiliser - to help restore/ encourage growth.
- Inspection and checking of any irrigation systems (if required).



A Typical rain garden features
Scale: NTS

NOTE:
Plan shows intent and is for coordination purposes, but subject to Stage 3 Design.

DO NOT SCALE FROM DRAWING

Drawing Information	SIGNIFICANT HEALTH, SAFETY & ENVIRONMENTAL INFORMATION RELATING TO CDM	No.	Revision	date	by	checked
Copyright of Place Design + Planning Ltd. 2008 All Rights Reserved	HEALTH:					
PLEASE NOTE: Figured dimensions take precedent over scale, do not scale from drawings.	SAFETY:					
Inform Place Design + Planning Ltd of any discrepancies before works commence on site.	ENVIRONMENTAL:					
All dimensions to be checked on site	IT IS ASSUMED ALL WORKS WILL BE CARRIED OUT BY A COMPETANT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN AGREED METHOD STATEMENT					

Client
St. George West London

St. George West London Ltd,
St. George House,
76 Crown Road,
Twickenham,
TW1 3EU

Project Title
Camden Goods Yard

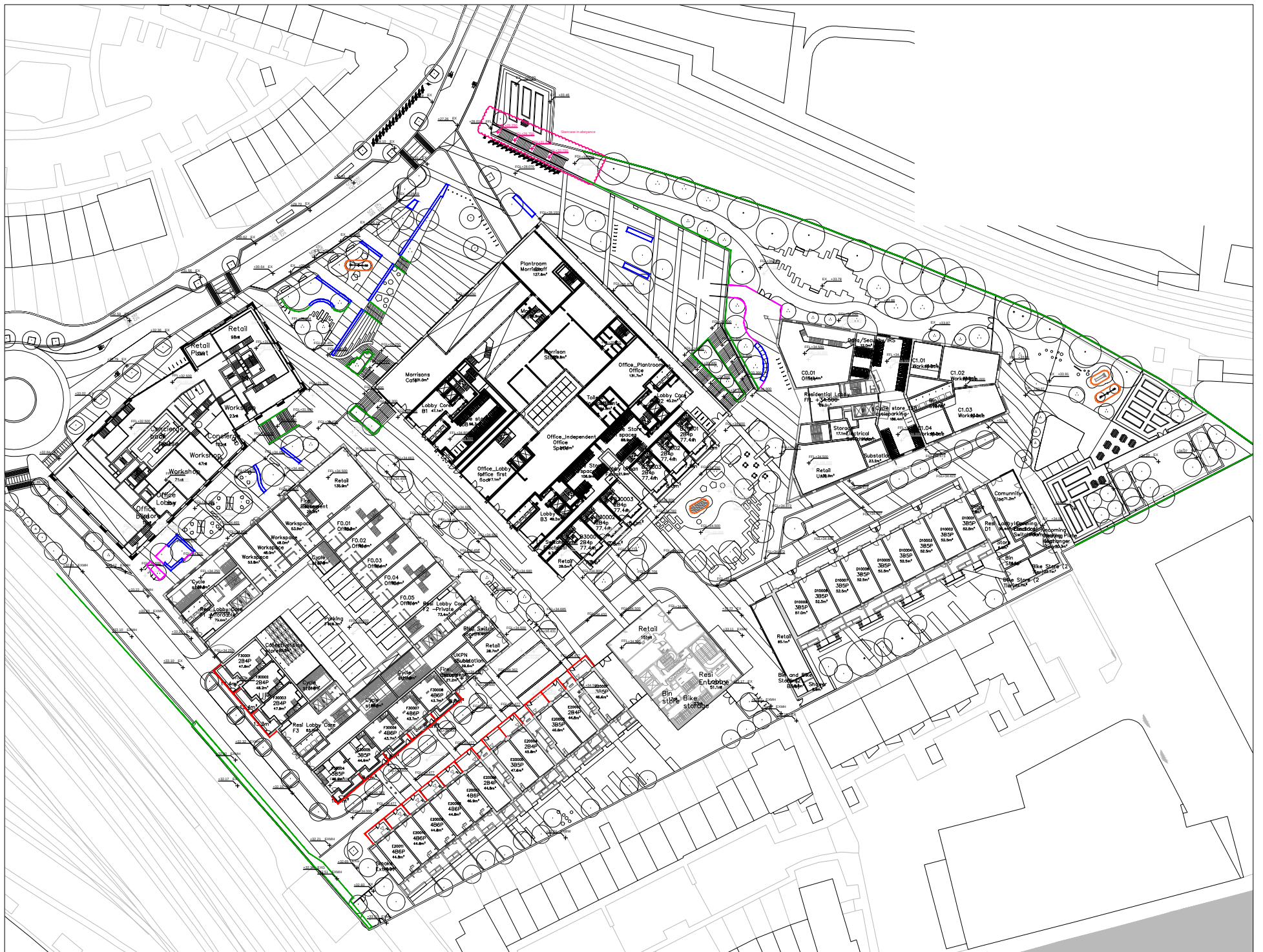
Drawing Title
SUDS strategy plan

Project Stage
Stage 3

PLACE
Design + Planning

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scale 1:500 at A1 date 01/03/21
drawn by CHC checked by GH
900_PL_006





Appendix D **Site Surveys**



ASSET ABBREVIATIONS			
AB	Banking Level	GL	Ground Level
BEL	Backfill Level	HBL	Hatchbox Level
BLK	Blocked	ID	Invert depth
CC	Concrete Chamber	IL	Invert Level
CI	Cast Iron	MH	Manhole
CL	Cover Level	PE	Polyethylene
CR	Cable Rider	PR	Pipe Rider
d	depth of service	Sd	Sump Depth
DI	Ductile Iron	SL	Soft Level
DIS	Discontinuity	ST	Steel
DT	Disconnecting Trance	UNK	Unknown
EOD	End of GWP Trace	UTO	Unable to Open
FID	Flooded	UTS	Underground Survey
FLD	Flooded	WL	Water Level
FOS	Full of Silt	WV	Water value

LEGEND	
	Foul Water
	Storm Water
	Indicative Storm Water route taken from CCTV data.
	Sonide trace tolerance zone
	IL 25.85' Estimated value

Grayline Network is existing topographic survey data supplied by the client without original drawings the MD-3667.dwg. No responsibility for the accuracy of the topographic information can be accepted by Plowman Craven

LINE & LEVEL SURVEY

Main entry survey

This traditional survey methods and techniques have been used to create the (PCU) network depicting survey of the various within this drawing.
The accuracy of the data that is transmitted with the drawing scale 1:200 (ie RICS band F) which could be identified as +/-150mm
This was normally considered to too small to be included as a search. The answers returned by user entry may be identified by the absence of a displayed tolerance zone.

Thames Water Records

This information, where available, has been used to check for gross errors in the surveyed alignment it is requested that this data is of an accuracy comparable to that of the CTS mapping upon which it is based.

CCTV sonide tracing

Some sewer nodes are located in the location of the sewers. The results are unreliable and should be viewed in context with the associated entry control.
The location of sewer connections has been derived from video footage and change monitoring from the CCTV camera unit used to undertake a condition survey. No direct measurement has been made.

Due to the inherent volatility of paper materials, drawings plotted on paper may be treated with caution - dimension scaled from paper plots should therefore be treated with caution.

This drawing has been produced for the purpose of the initial reconnaissance only. Plowman Craven accepts no liability to make the subsequent design or construction of the works shown on this drawing. Plowman Craven Limited shall not be responsible for claims arising from its use. It is recommended that the consequences of unfulfilled bids or the failure obtained from use at the discretion of the client be agreed before the survey.

SHEET LAYOUT

ISSUES & REVISIONS

Issue	Details	By	Date
A prov 1	Provisional Issue	JD	13/07/2020
A prov 2	Second Provisional Issue	JO	30/07/2020
A prov 3	Third Provisional Issue	JD	07/08/2020
A prov 4	Fourth Provisional Issue	AT	15/01/2021
A prov 5	MHSB CCTVCV Entry into MH21 to find incoming	SR	15/02/2021
A prov 6	MH 21 CCTVCV MH ABED MH ARF CCTVCV	SR	02/02/2021

This survey is commensurate with Band F accuracy, as outlined in the RICS survey detail accuracy banding table

All levels are in metres and are above Ordnance Survey Newlyn Datum derived by multiple network RTX GPS observations

The survey grid shown on this drawing is positioned on Ordinance Survey (OS) National Grid, obtained by multiple network RTX GPS observations

Unless otherwise stated, levels have been taken to finished surface

All quoted dimensions are in metres

Drawing units are metres

CLIENT

St George West London Ltd
St George House
16 The Boulevard
Imperial Wharf
LONDON SW6 2UB

PROJECT TITLE

Camden Goods Yard
Camden

2D Line and Level Survey

PRESENTATION SCALE **1:200 @ A0**

DATE OF ORIGINAL SURVEY **13th July 2020**

PC PROJECT NO: 4500A **CHECKED** **PCL**

DRAWING NO. **ISSUE**

4500AT-01-1 **A prov 6**

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ASSET ABBREVIATIONS			
AB	Abandoned	GL	Ground Level
BLK	Backsight Level	HSL	Headstock Level
BLK	Blocked	Id	Invert depth
CC	Concrete Chamber	IL	Invert Level
C	Cable Iron	MH	Manhole
CL	Cover Level	PE	Polyethylene
CR	Cable Riser	PR	Pipe Riser
d	depth of service	Sd	Sump Depth
DI	Ductile Iron	SL	Soft Level
DS	Downed	ST	Steel
DT	Disconnecting Trap	UNK	Unknown
EOG	End of Chain	UTD	Unable to Dig
EOT	End of Trace	UTS	Unable to Survey
FLD	Flooded	WL	Water Level
FOS	Full of Silt	WV	Water valve

LEGEND	
	Foul Water
	Storm Water
	Indicative Storm Water route taken from CCTV data
	Sonde trace tolerance zone
	Estimated value

Copyright Plowman Craven is retaining topographic survey data supplied by the client within digital drawing file MSL3647.dwg. No responsibility for the accuracy of this topographic information can be accepted by Plowman Craven

LINE & LEVEL SURVEY

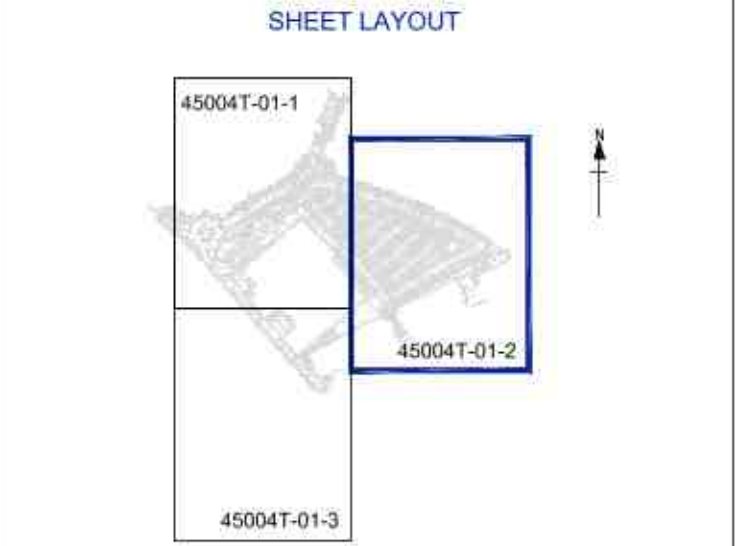
Main entry survey
Traditional survey methods and techniques have been used to create the (PCL) network showing some of the assets within this drawing.
The accuracy of this data is that consistent with the drawing scale 1:200 (ie RICS band F), which would be considered as <100mm.
There is no responsibility for the accuracy of this data as it is not a direct measurement. The accuracy of this data is that consistent with the drawing scale 1:200 (ie RICS band F), which would be considered as <100mm.
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Thames Water Records
This information, where available, has been used to check for gross errors in the surveyed alignment. It is expected that this data is of an accuracy comparable to that of the OS mapping upon which it is based.

CCTV sonde tracing
Sonde traces have been used at the location of the entries. The results are not reliable and should be viewed in that light. It is normally expected that the optimum accuracy for a 100m of the length of the sonde trace.
The location, as shown, of sewer connections has been derived from video footage and drainage recordings from the CCTV sonde unit used to undertake a sonde survey. No direct measurement has been made.

Due to the inherent instability of paper materials, drawings plotted on paper may be observed and measured. Dimensions scaled from paper plots should therefore be treated with caution.

This drawing has been produced for the purpose of the original commissioning agent. Plowman Craven accepts no liability for errors or omissions in the drawing or for any consequences arising from the use of the drawing. The drawing is provided for the client's use only and is not to be used for any other purpose. The drawing is provided for the client's use only and is not to be used for any other purpose.



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A prov 3	Third Provisional Issue	JD	07/09/2020
A prov 4	Fourth Provisional Issue	AT	15/01/2021
A prov 5	MH18 CCTV Entry into MH21 to find incoming	SR	15/02/2021
A prov 6	MH21 CCTV Entry into MH18 to find incoming	SR	02/02/2021

This survey is commensurate with band F accuracy, as outlined in the RICS survey detail accuracy banding table.
All levels are in metres and are above Ordnance Survey Newlyn Datum derived by multiple network RTK GPS observations.
The survey grid shown on this drawing is positioned on Ordnance Survey (OS) National Grid, obtained by multiple network RTK GPS observations.
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St George House
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PROJECT TITLE

Camden Goods Yard
Camden

2D Line and Level Survey
PRESENTATION SCALE 1:200 @ A0

DATE OF ORIGINAL SURVEY 13th July 2020
PC PROJECT No. 45004 **CHECKED** PCL
DRAWING No. **ISSUE**

45004T-01-2 **A prov 6**

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