

St Giles - Zone 3: 6 Denmark Street
Listed Building Application

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#### Introduction

The existing building is located on Denmark Street, London WC2H 8LS. The building is undergoing a full refurbishment in accordance with Listed Building Consent - 2012/6867/L. Ian Chalk Architects have been appointed as the architects to deliver the building on site and Cord Contracting as the Contractor.

No.6 Denmark Street forms one of a number of late 17th Century terraces along Denmark Street that were developed at the same time. ICA are appointed to refurbish nos. 6, 7, 9 & 10.

A recent application for no.9 Denmark Street has been submitted following dialogue with Camden Conservation. The application set out a number of principles for the refurbishment of that building, including integration of modern services into historic fabric, and reinstatement of period details. The application sought for no.6 Denmark Street looks to build on the principles that have been agreed for no.9, due to the similarities of the original buildings & the refurbishment works proposed.

The following pages provide a full description of the proposals. The proposals are supported by separate Structural documentation from Engenuiti.



No. 6 Denmark Street Elevation

1.0 Services strategy

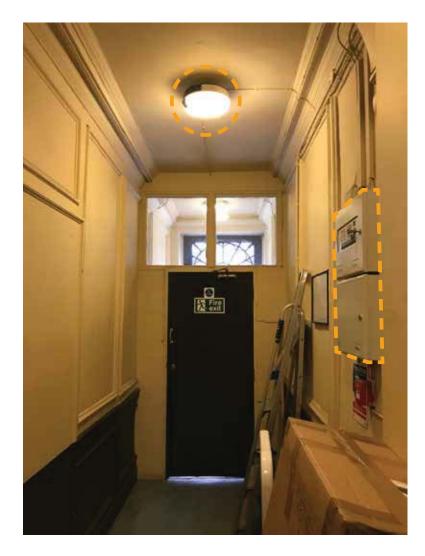
## **Existing Services**

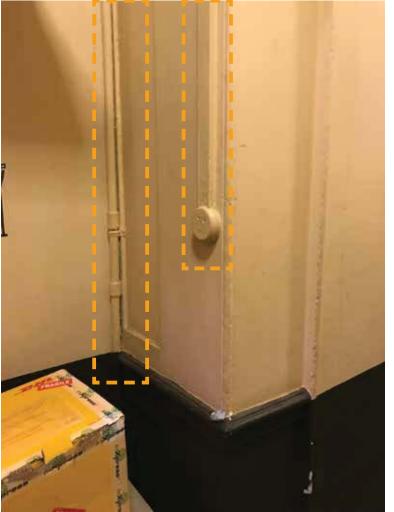
The existing building is generally in a poor condition and the services provision throughout is inadequate and piecemeal. This is typical of old buildings where later services have been added at varying stages. The photographs to the right show various services installations across the building.

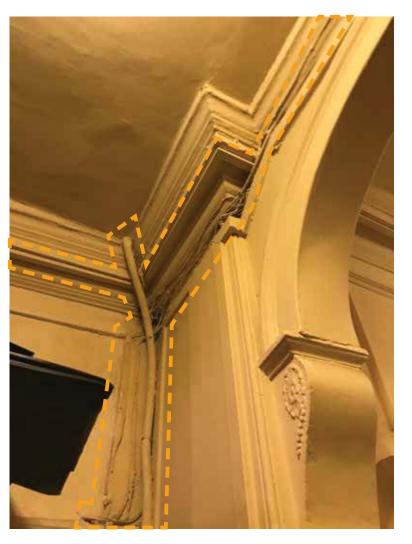
There has been no cohesive strategy and the result is a clutter of surface-fixed wiring and pipework that compromises the reading of the historic fabric and, in places, damages the fabric where cornices/dados have been chopped out to run routes.

The full-scale refurbishment of this building which forms part of the works currently taking place provides an opportunity to reassess how the townhouses to Denmark St are serviced and upgraded to meet modern requirements, as well as how to future-proof, ensuring the preservation of the buildings in the long term.

This report reviews the consented option for providing service routes to the consented kitchen/living areas at the front of the house, before looking at an alternative solution adopted and agreed in principle for No.9 Denmark Street and then sets out proposals for the preferred solution for this property.







Entrance Hall of No.6, September 2017, following possession showing an array of surface mounted containment, wires and wall-mounted lighting

## Existing building and condition

The key limitations with the existing building when servicing is the configuration of the rooms and the restrictions of working with a timber-framed interior.

On a typical upper floor, services are either distributed from the stairwell and into the front and rear rooms, or externally via the rear elevation

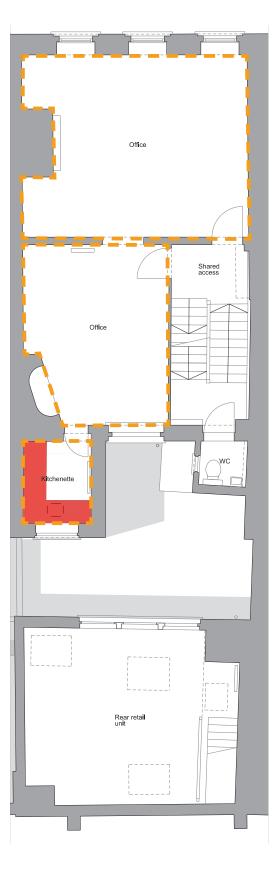
This leaves little option but to install exposed services, with pipework boxed out over original features and surface-mounted containment throughout.

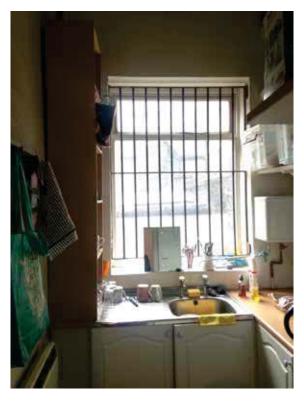
Typical upper floor arrangement

Principal room - majority of historic features/panelling remain at 1st and 2nd Floors.

Back room - historic fabric mainly intact on 1st Floor, later modern replica on 2nd Floor

Closet wing modified with later kitchenettes





Busy kitchenettes spoil reading of closet wing



Wiring running across openings and through walls affects the existing fabric. Subsequent modifications to the spaces make for a clash of bulkheads, details and features not in keeping with the period and heritage of the building

#### Consented Service Strategy

The consented proposals for 6 Denmark Street position wet services in the principal front room of the house on each of the upper floors. This creates a challenge for providing services, particularly drainage from the sink and washing machine.

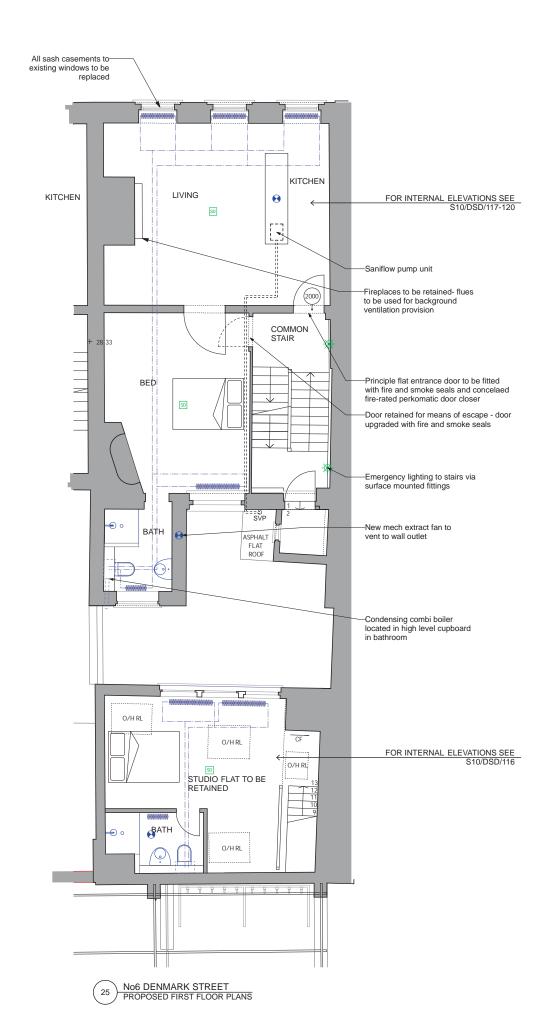
The consented scheme shows routes for drainage within the floor void, passing from the front, through the back room and out to the rear elevation. The distance of pipework required means that gravity drainage cannot be achieved due to a limited floor void. The consented scheme includes the provision of pumped foul drainage in the form of a Saniflo type pump located within the kitchen island unit.

These units, whilst having some benefits, are noisy and can become blocked - this is a particular risk in this building as the pumps will be serving kitchen sinks and food waste and grease can easily block the pumping mechanism.

The risk of water blockages and leaks is a particular concern as the fabric of the building is fragile and includes lath and plaster ceilings and cornices. Any flooding that resulted from a kitchen blockage could severely damage the plaster details, as well as the timber linings.

In terms of extract ventilation within the kitchen/living space, provision is for a recirculation hood above the oven, with background ventilation provided via the existing chimney flues.

We do not feel that this current servicing strategy offers the best long-term solution for the building, putting it at potential future risk of harm and not addressing the fundamentals of modern services.





Pumped drainage unit located beneath kitchen sink

## Strategy for No. 9 Denmark Street

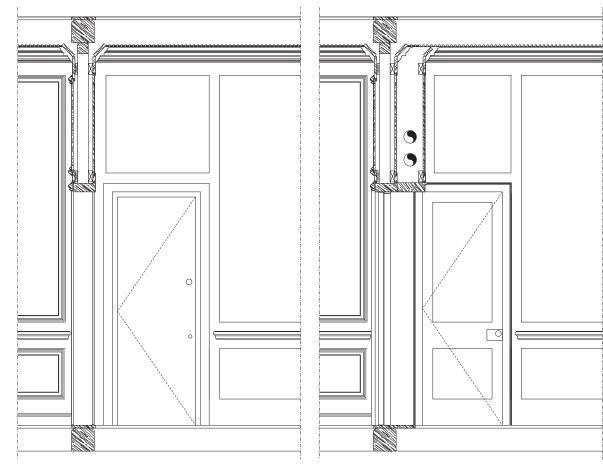
Consented under application ref: 2017/3191/L

For No.9, we have been in discussion with Camden Conservation and have agreed in principle an alternative strategy that we felt would be a more appropriate way of servicing the existing building. This approach entailed carrying out minor modifications to the partition wall that separates front and back rooms.

The spine wall partition is timber framed and requires structural modification to address ongoing issues of building settlement. Once structural modifications are complete and linings reinstated, we have agreed the principle of installing a new vertical distribution riser within the back room. This riser will be panelled with a high-level plaster cornice, all detailed to match existing. This riser can be installed within the upper floors of the house and allow for efficient introduction of modern servicing.

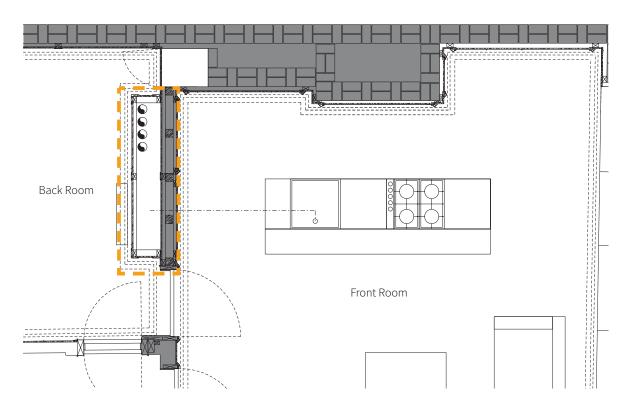
Due to the similarities in construction and short-comings of no.6 Denmark Street, we feel that this services strategy is relevant to this application and applicable here.

The proposal does result in some very minor harm to the panelling of the First Floor back room and the reading of the room plan, however, it was agreed that the benefit of being able to service the building and preserve it in the long term would outweigh this harm.



Existing section showing partition and panelling

Proposed section showing services zone concealed behind new panelling



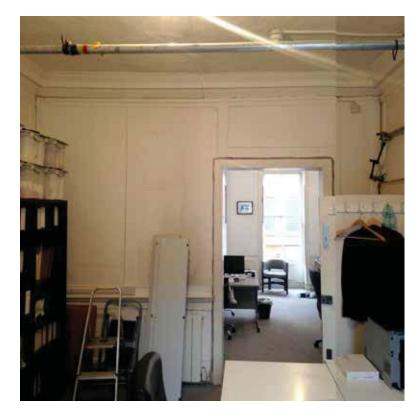
Proposed plan showing services zone concealed behind existing panelling with doors and architraves reinstated

## Preferred Services Strategy for No.6 Denmark Street

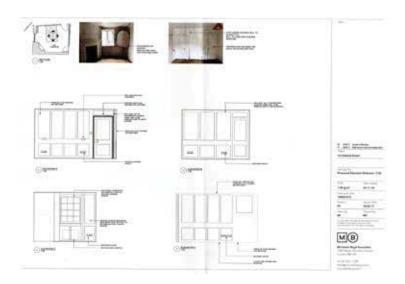
Our preferred solution, as with No.9, is creating a false spine wall. Whilst there is a small amount of harm by passing vertical pipework through existing floorboards and lath and plaster ceilings, this is kept to a minimum and allows both front and rear rooms to be serviced from a single riser. The false wall will be panelled to match existing, with a new plaster cornice. All existing panelling will be retained in-situ and any new works will be scribed into the existing, ensuring that the false wall can be removed in future and the original panelling revealed.

The structural works required to arrest the sinking of the spine wall (see accompanying Engenuiti Report) also offer an opportunity to integrate the services route in this location with minimal further intrusion to the existing building.

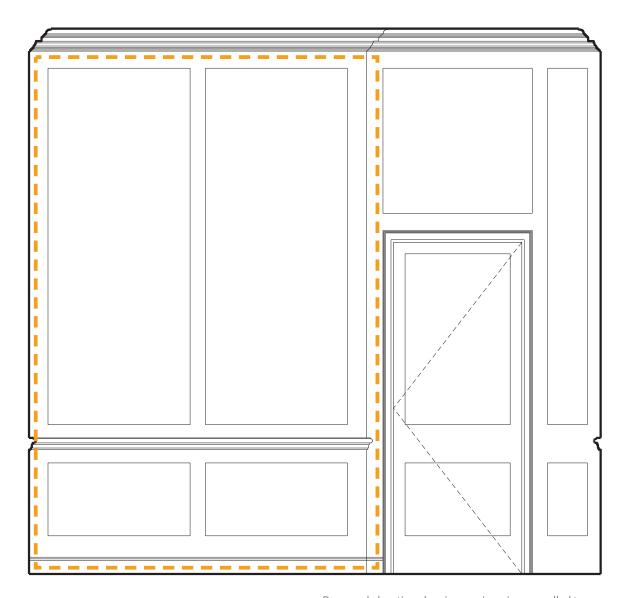
The preferred strategy has been developed in consultation with Alan Baxter Associates as Heritage Consultants and they have offered the introduction of a services riser into 16 Holland Street as a suitable precedent where this strategy has been implemented in a similar period Grade II listed Georgian townhouse.



First Floor back room - existing spine wall, large opening to front room a later modification that shall accommodate a new door and be modified to more appropriately suit the panelling



Precedent introduction of riser within Grade II listed townhouse - 16 Holland Street, W8 4LT - Michaelis Boyd Associates



Proposed elevation showing services riser, panelled to match existing. Door access remains unaffected

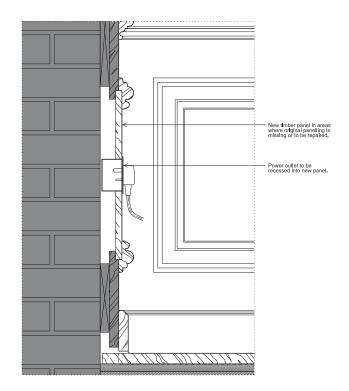
# Installation of electrical sockets and switch plates

We propose two approaches to the introduction of electrical small power and lighting switch plates into the existing building.

Due to the extensive panelling throughout the building, we will look to minimise switches.

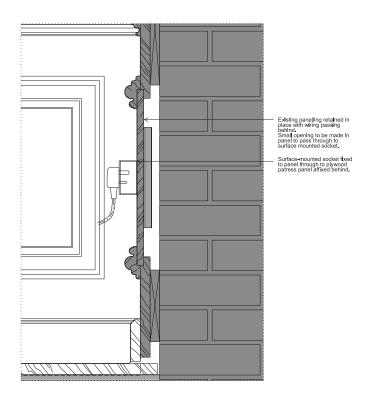
Where existing panelling remains, we will either reuse locations where back-boxes have already been cut-out, or we will surface-mount units.

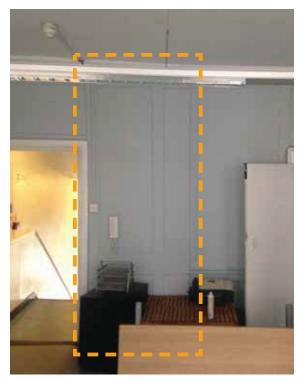
Where panelling has been damaged/lost and needs replacing, we will incorporate recessed back-boxes with flush plates into new panelling.



Recessed back-box and flush-mounted switch plate







Example of modified panelling in no. 6 Denmark Street. This panel will require replacement and offers the opportunity to incorporate flush-mounted switch plates







Example of dado level services' cut-outs in existing panelling in no. 6 Denmark Street. Repairs will be required here while switch plates will be located somewhere less conspicuous

Example of fully intact panelling - surface-mounted backbox and switch plate will be required here



## Structural Strategy

Currently, the structure is showing signs of failure, particularly in the stairwells. Initial inspection has uncovered historic attempts to address the continual subsidence and while improvements have been made, the problem remains.

In order to stop any further degradation a number of strengthening works will need to be undertaken. The timber spine beam, stair beam, and floor joists all require strengthening works to halt any further deflection. Each approach shall be analysed and dealt with case-by -case and outlined in Egenuiti's Structural Report, but generally, failing timber beams shall be strengthened by steel beams either side and existing timber joists shall be strengthened by a new timber joist bolted along it.

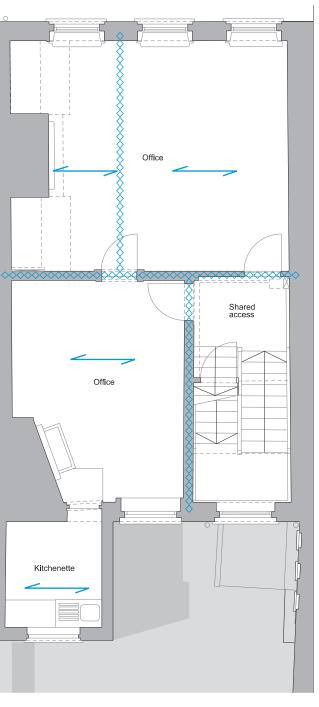




Landing showing signs of floor deflection



Cornice line above openings showing signs of deflection



Original structural layout in need of strengthening

2.0 Second Floor

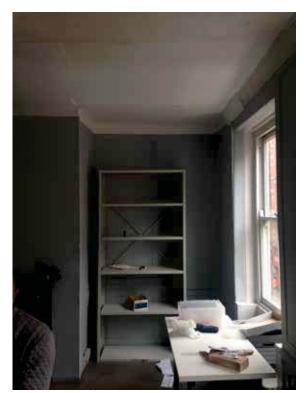
## Cornice Line within Front Room

The existing cornice line has sections missing and others which are damaged. This is most likely due to the historic introduction of cupboards to the fireplace niches which have now been removed. The consequence of these modifications is an incomplete & inconsistent cornice line which harms the reading of the room

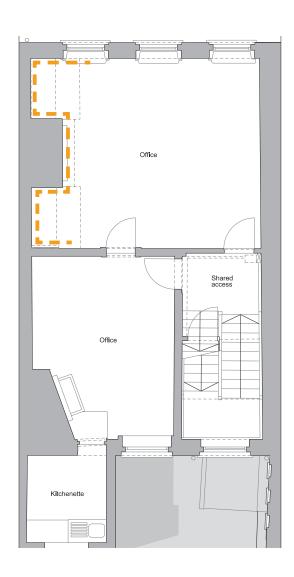
This application seeks to carefully inspect and restore the existing cornice line and to reinstate sections where it is missing in order to return the room to its historic image. We will work with a plaster specialist and take squeezes of the existing cornice to matched.







Examples of missing cornice line

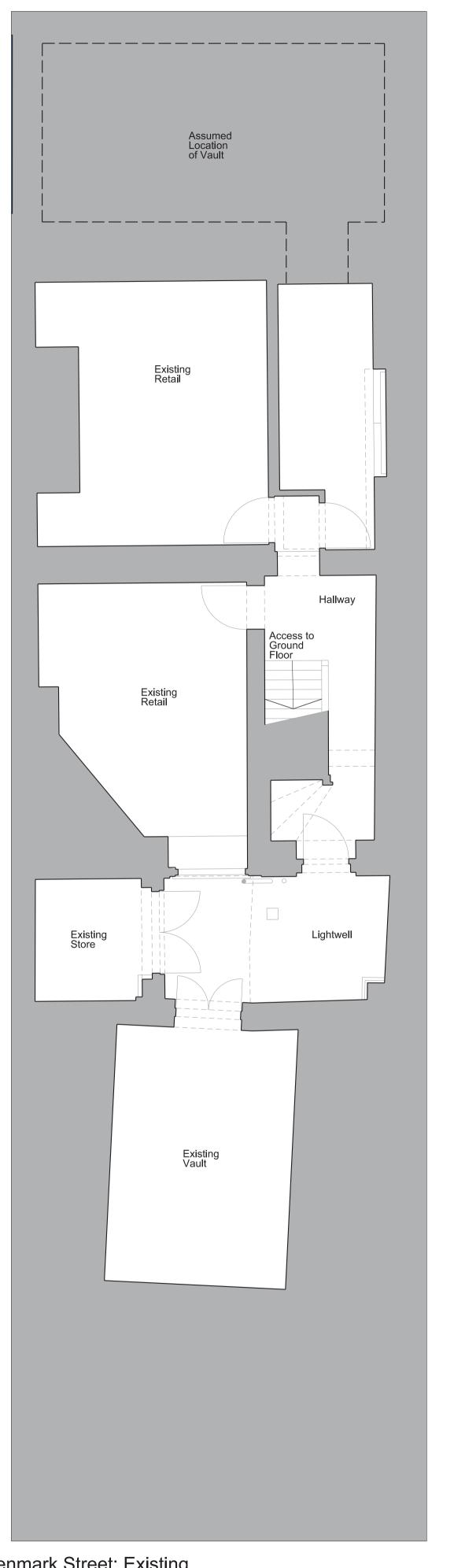


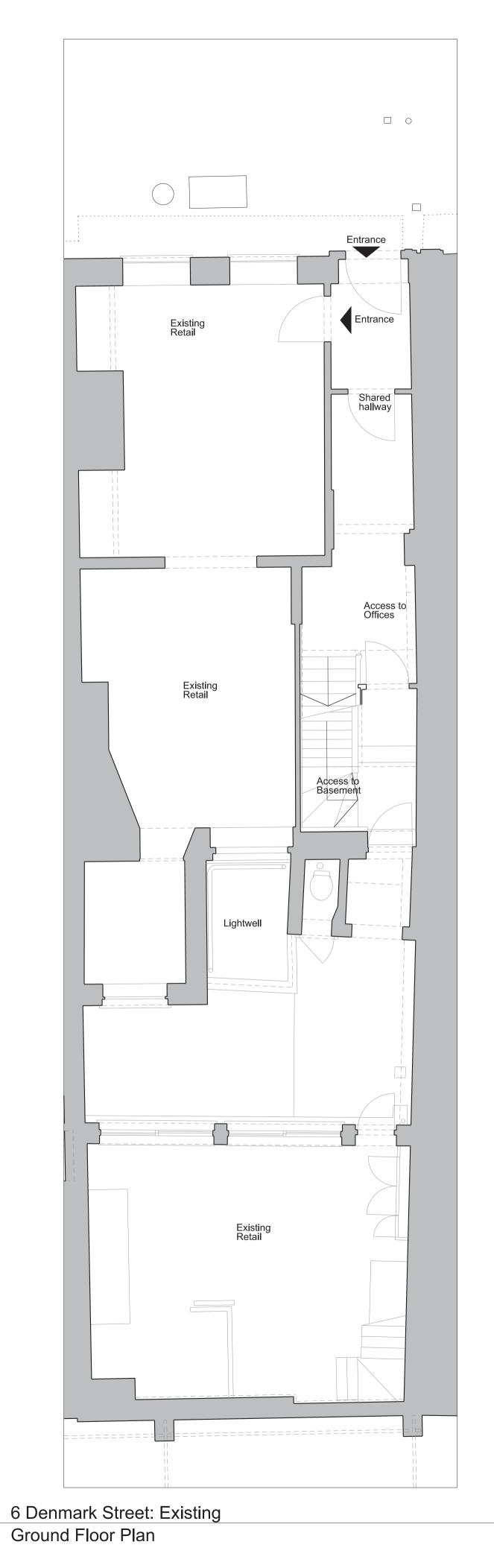
Example of intact cornice

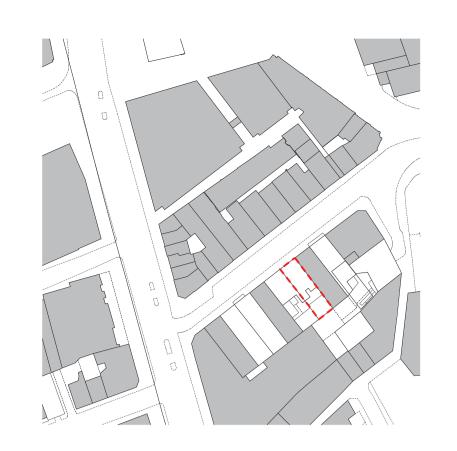


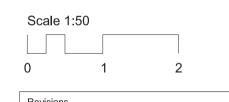
Missing cornice line above

## 3.0 Architectural Drawings











01 Issued to LBC 26/09/17

Consolidated Ltd.

St. Giles Circus - Zone 3

No 6 Denmark Street Existing

Basement + Ground Floor Plan

Drawing Number

1:50

1401\_6D(X)100

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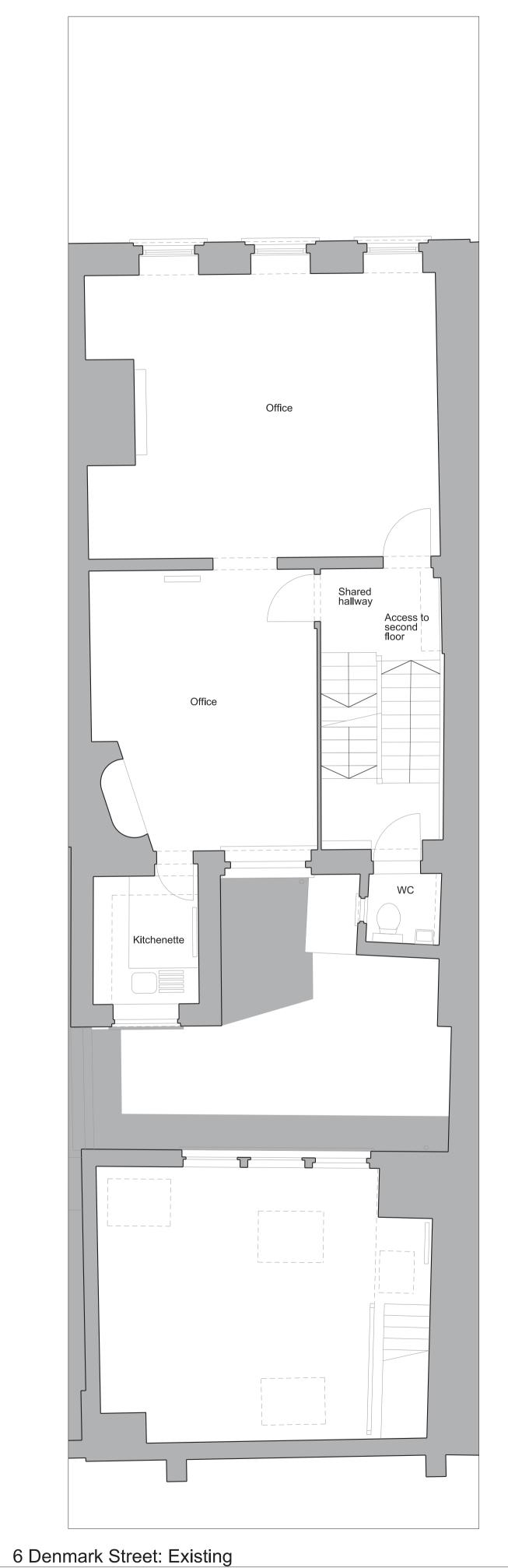
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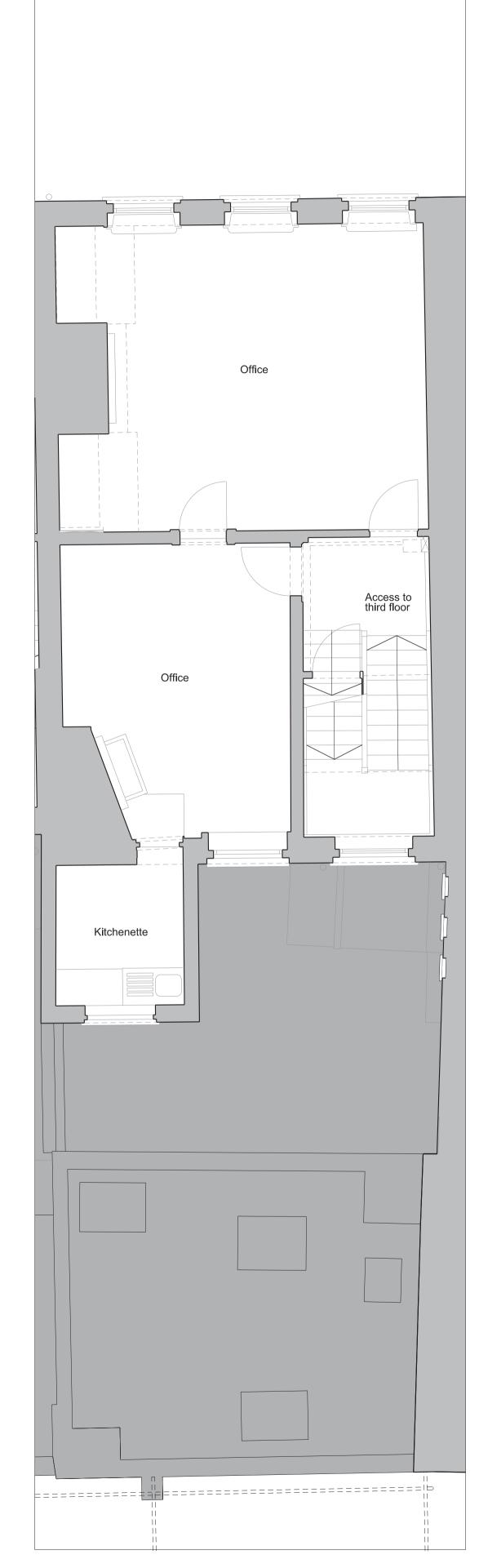
70 Cowcross Street London EC1M 6EJ

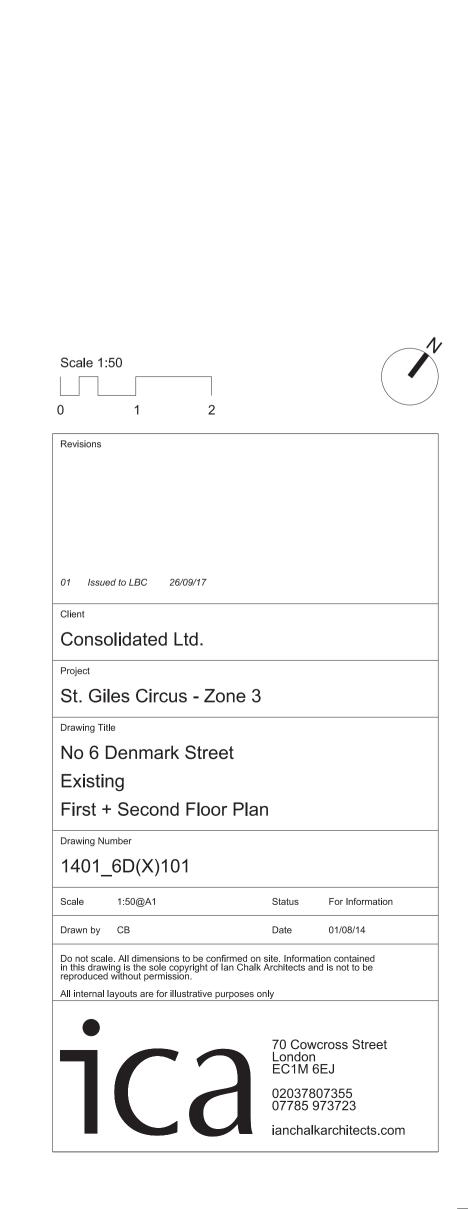
Basement Plan

6D(X)100

6D(X)100

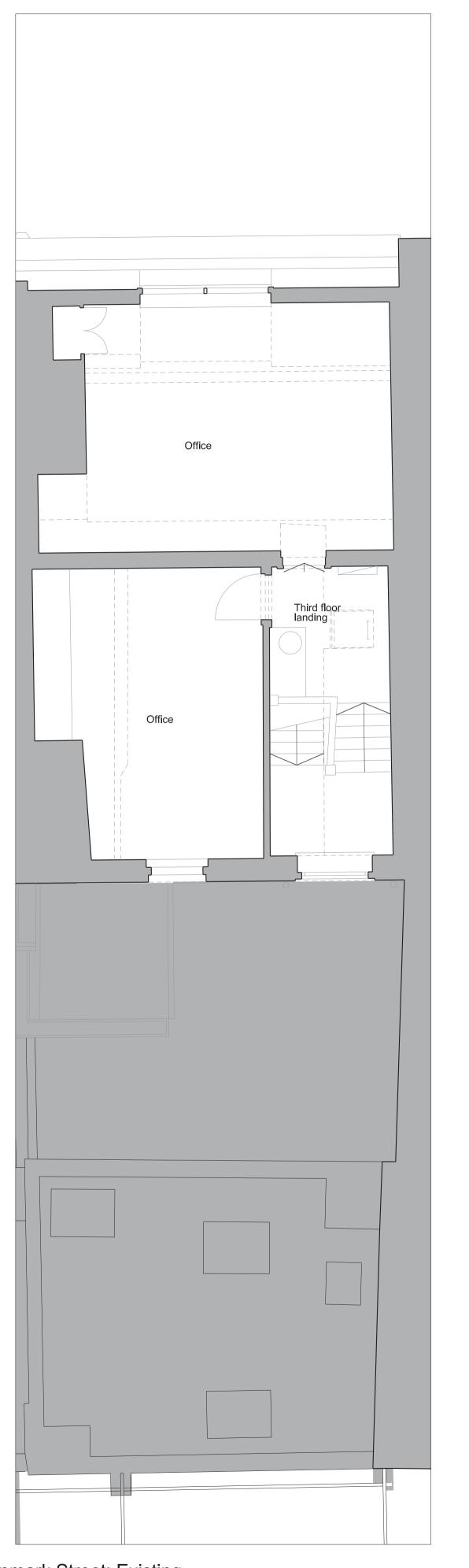


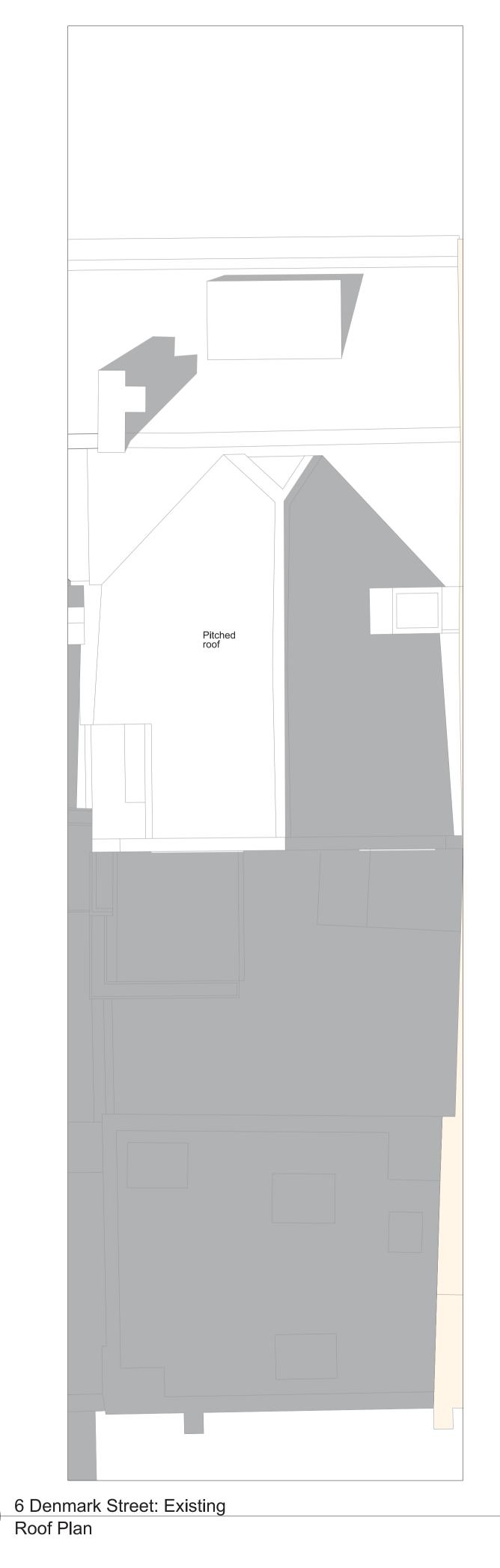


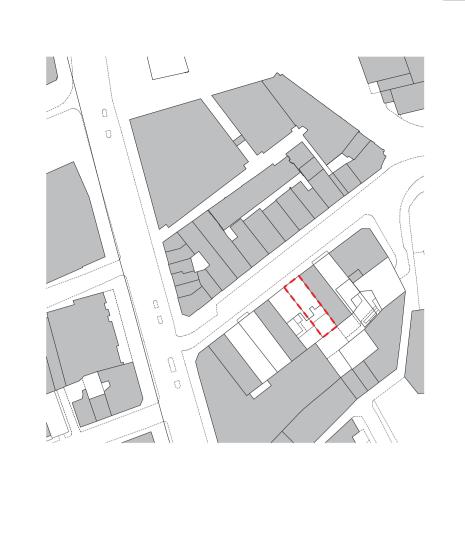


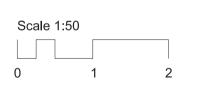
6 Denmark Street: Existing Second Floor Plan

First Floor Plan









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Consolidated Ltd.

St. Giles Circus - Zone 3

No 6 Denmark Street Existing

Third Floor + Roof Plan

Drawing Number 1401\_6D(X)102

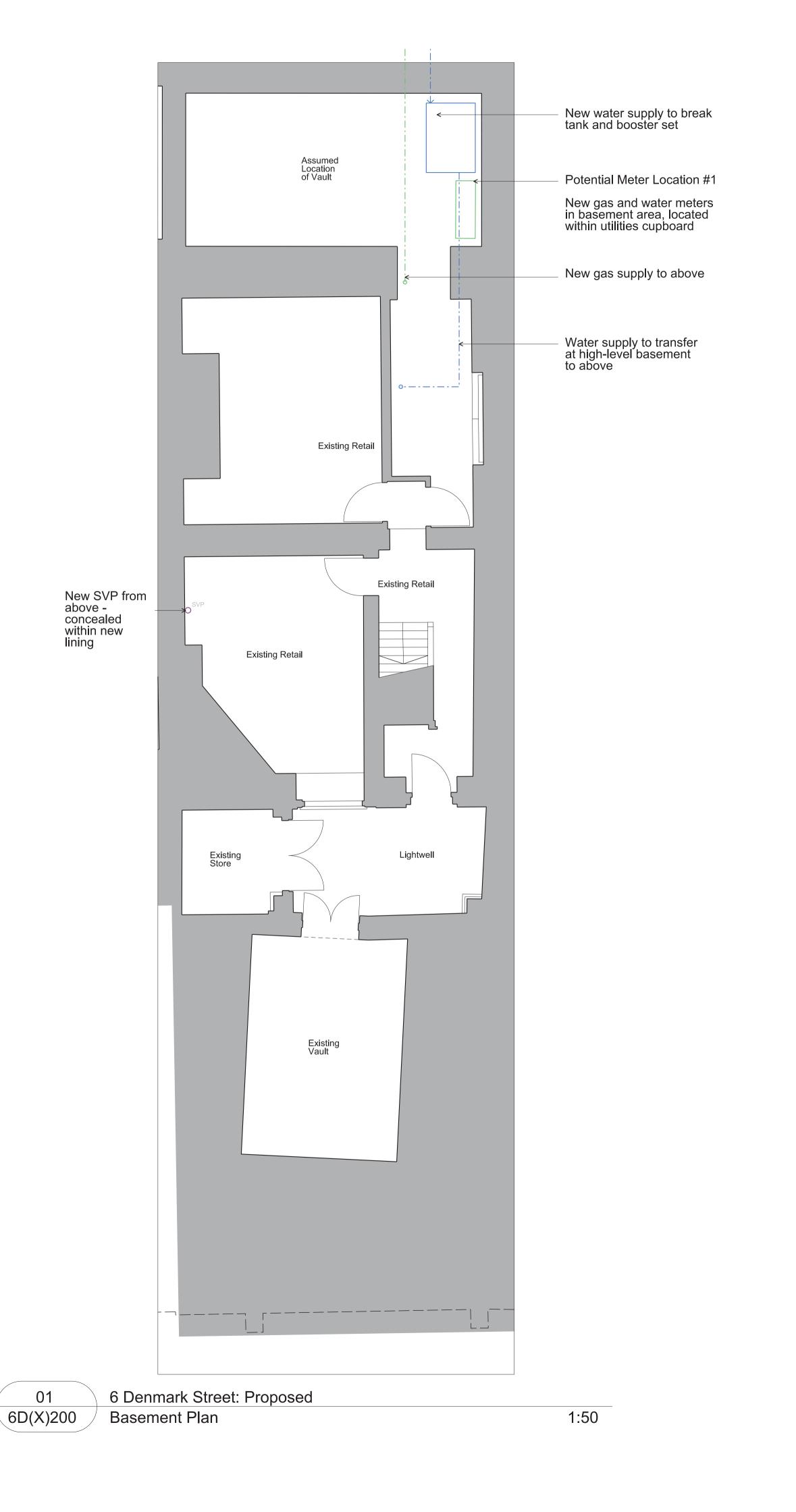
1:50

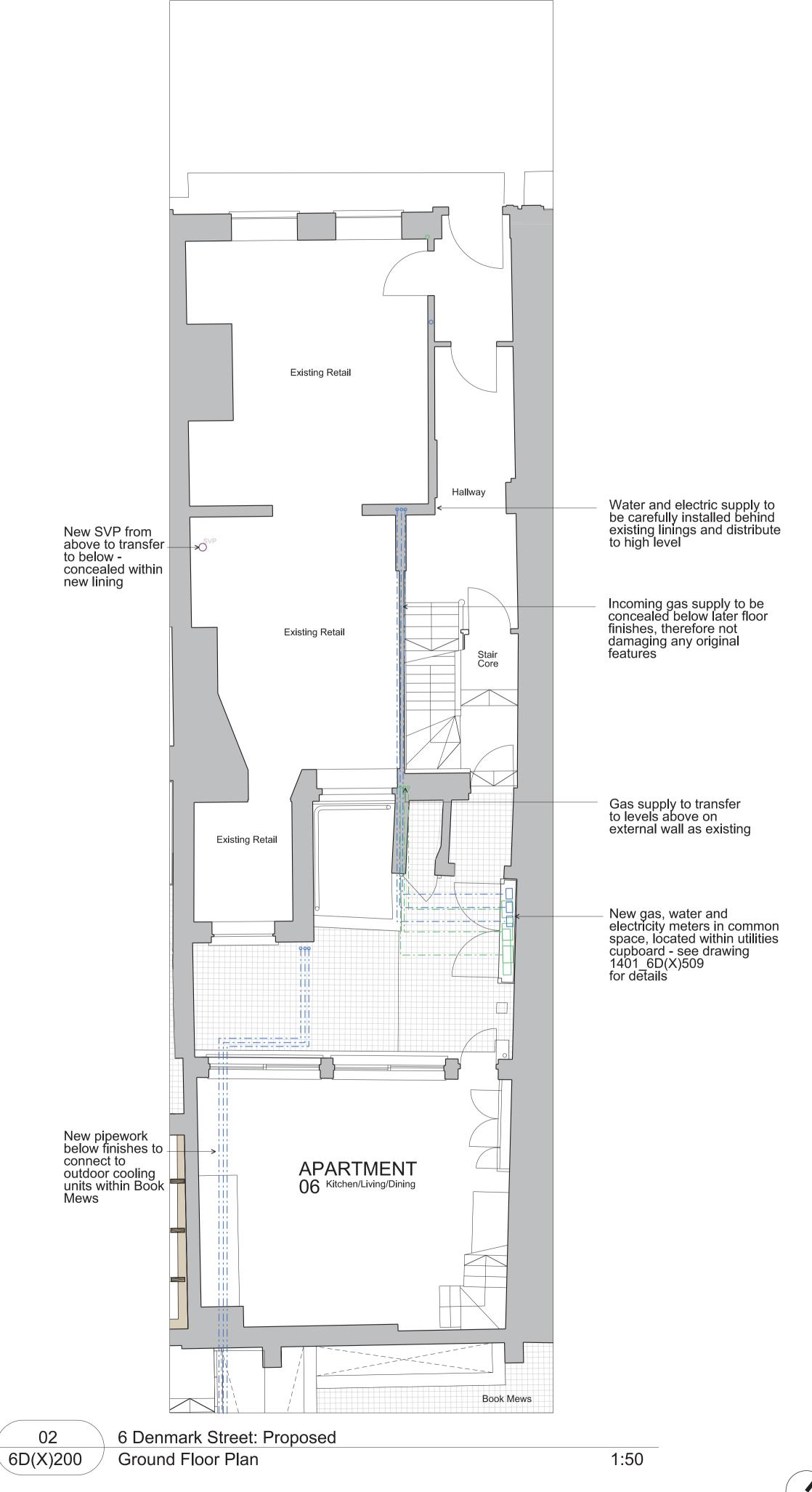
Status For Information Drawn by CB

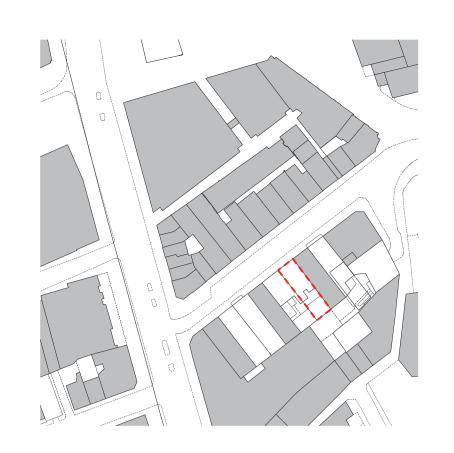
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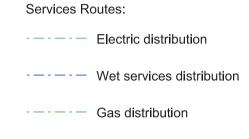


70 Cowcross Street London EC1M 6EJ





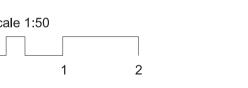


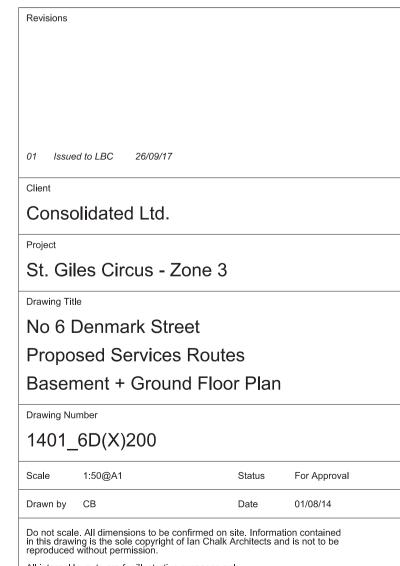


---- Drainage

---- Ventilation

Scale 1:50

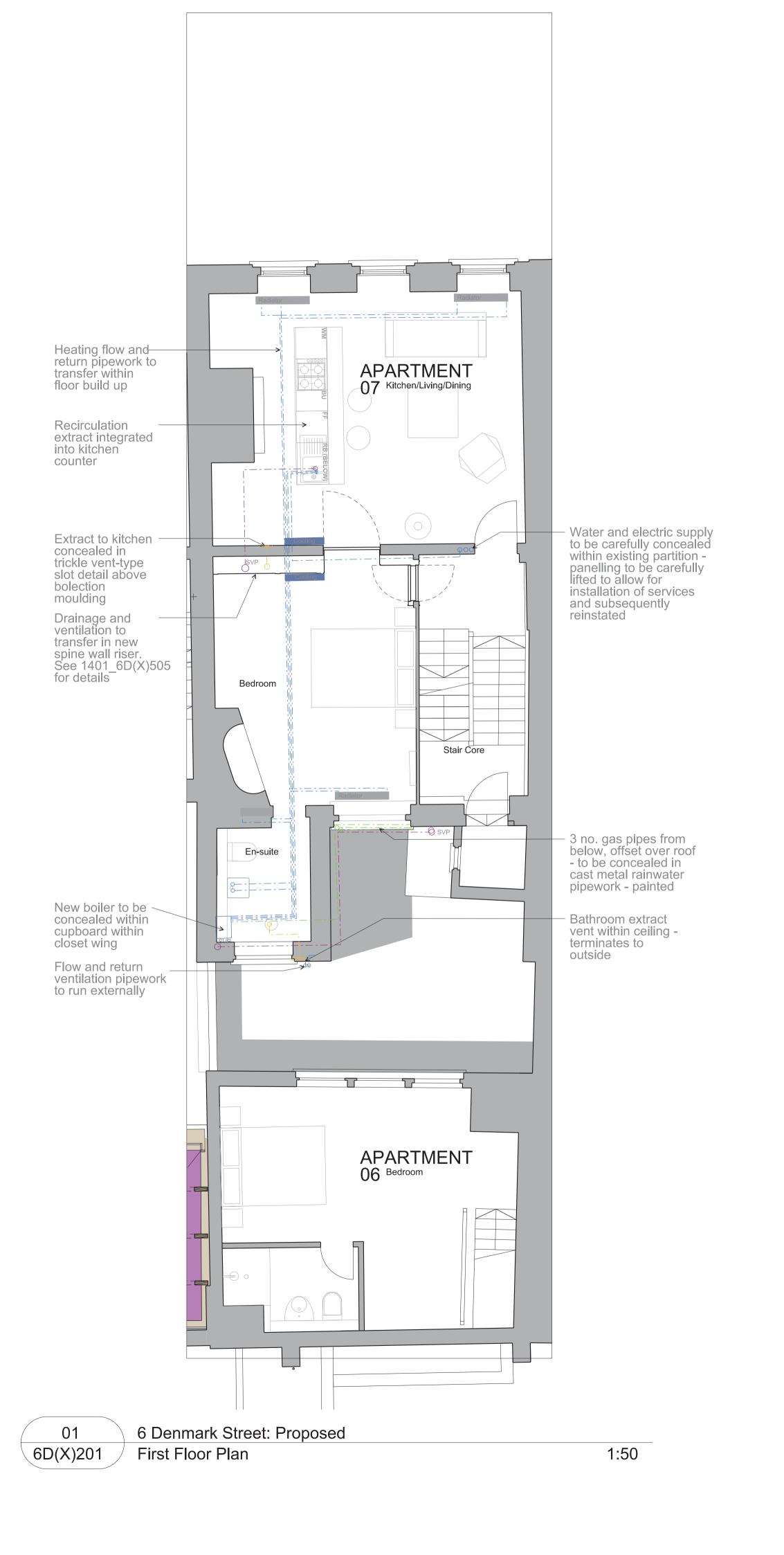


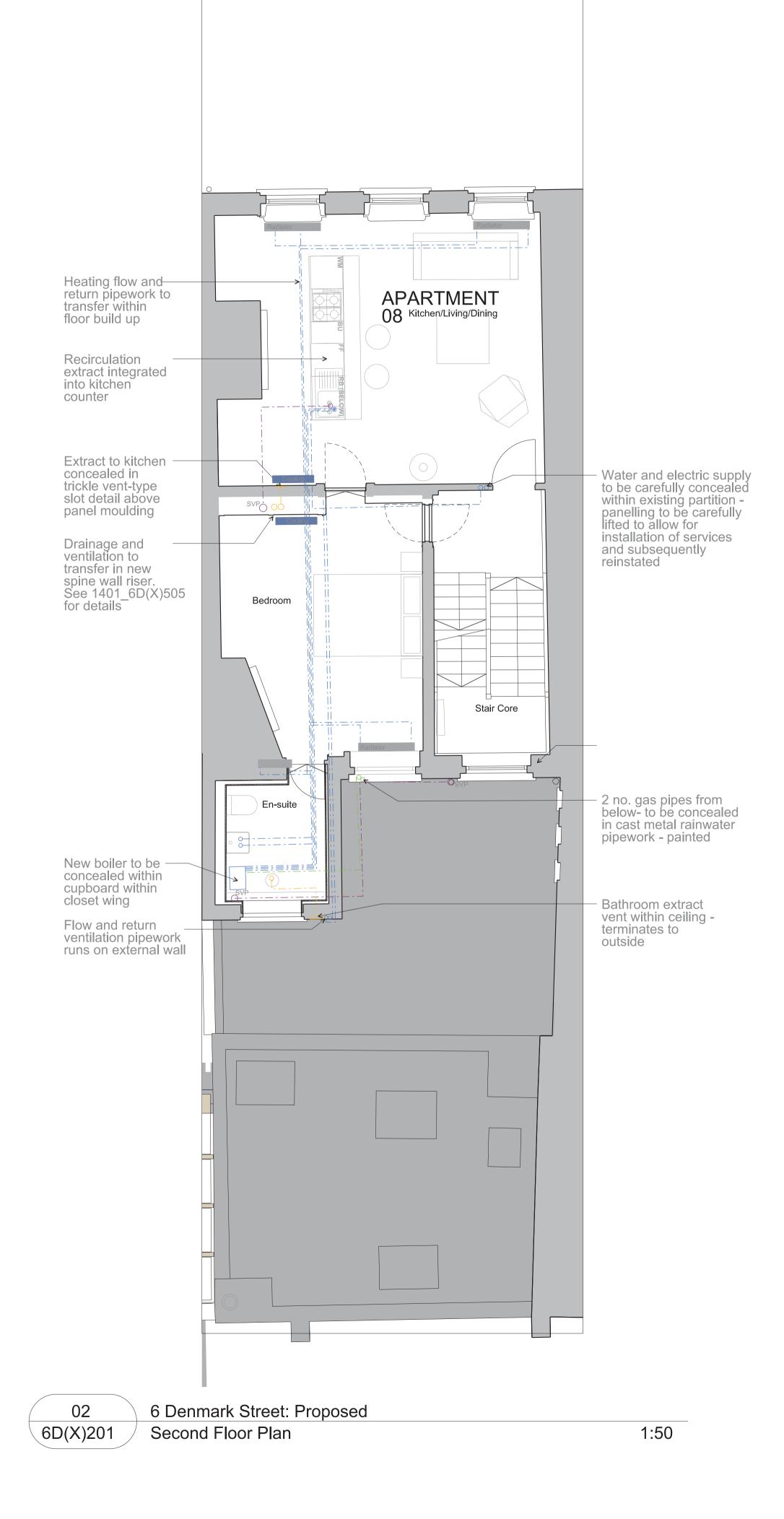


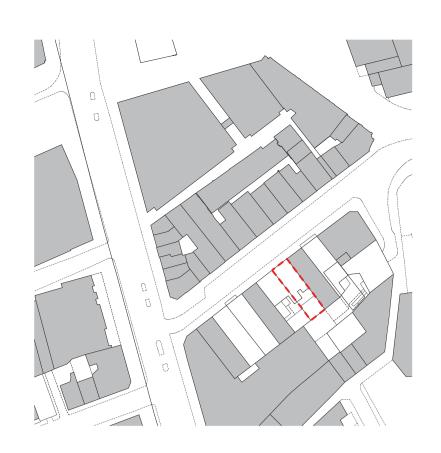
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## Services Routes:

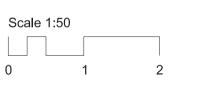
Electric distribution

Wet services distribution

Gas distribution

Drainage

Ventilation





Drawing Number 1401\_6D(X)201

Scale 1:50@A1

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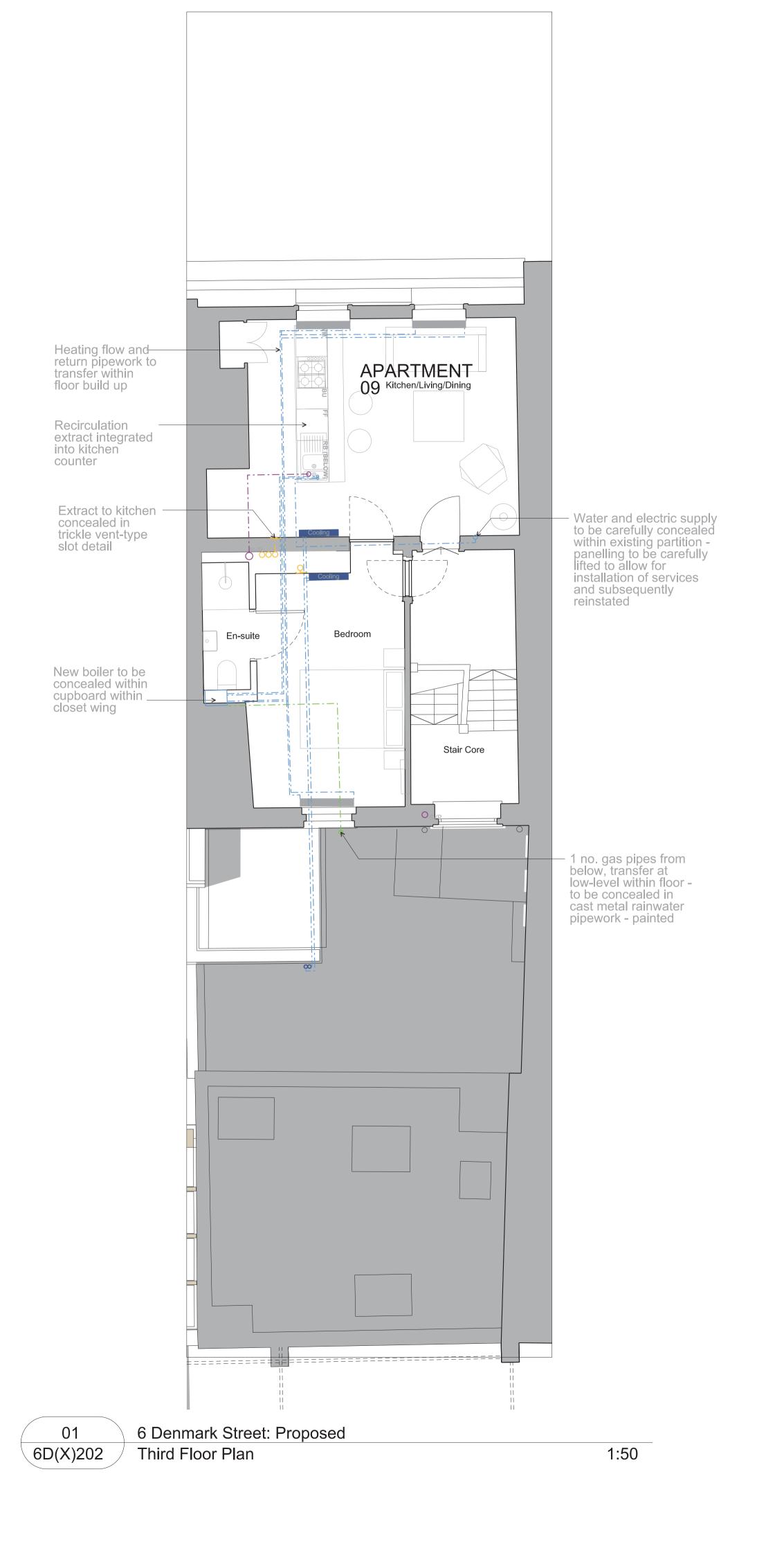
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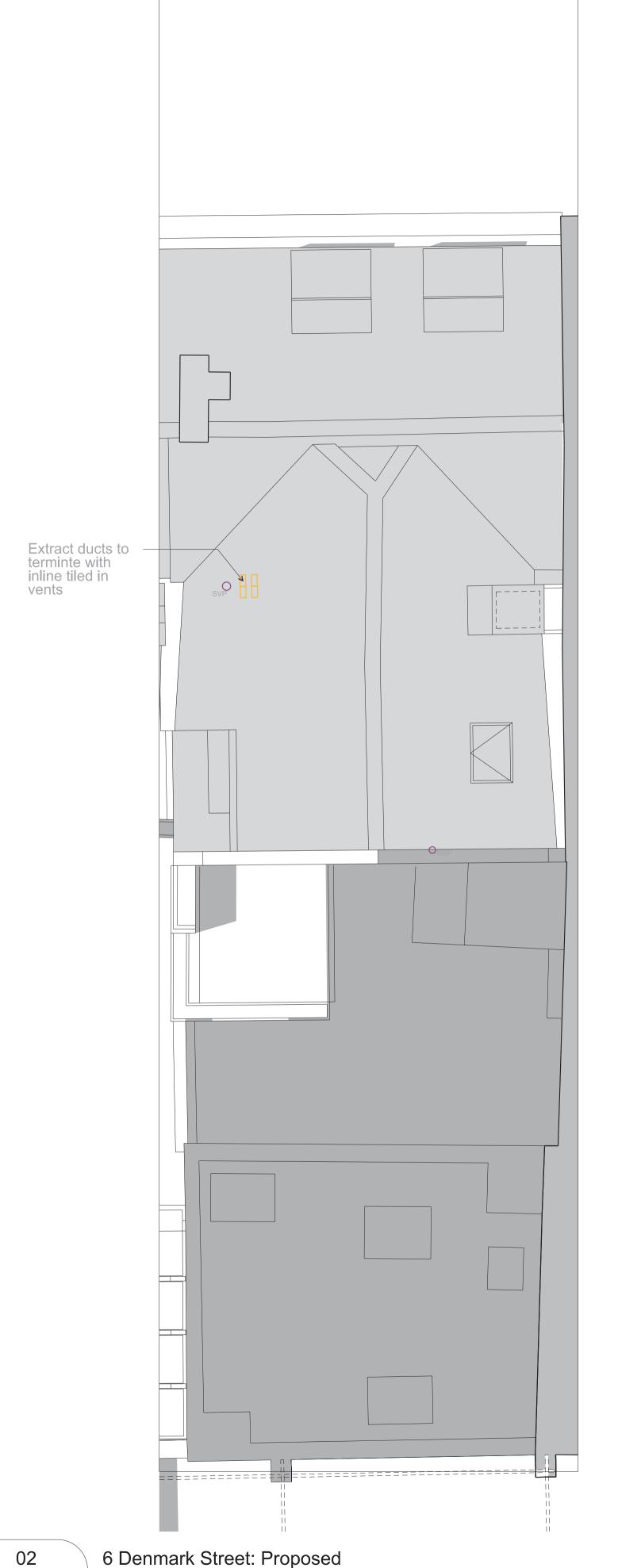


70 Cowcross Street London EC1M 6EJ 02037807355 07785 973723 ianchalkarchitects.com

Status For Approval

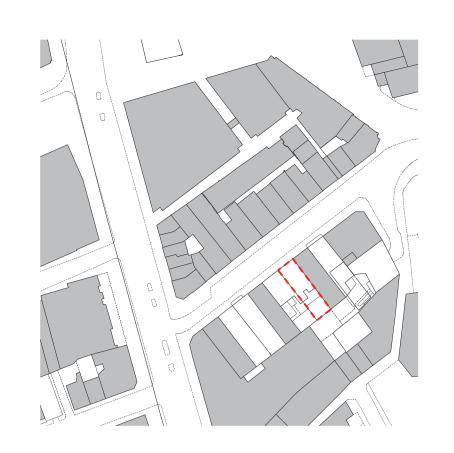
Date 01/08/14





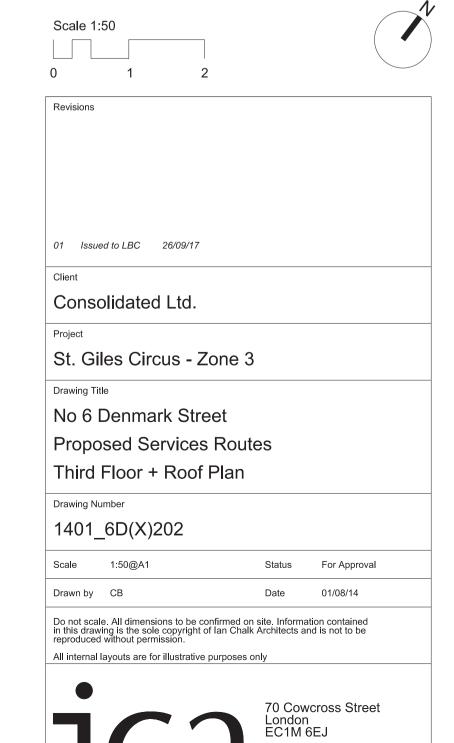
6D(X)202

Roof Plan



# Services Routes: ---- Electric distribution ---- Wet services distribution ---- Gas distribution ---- Drainage

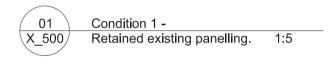
---- Ventilation

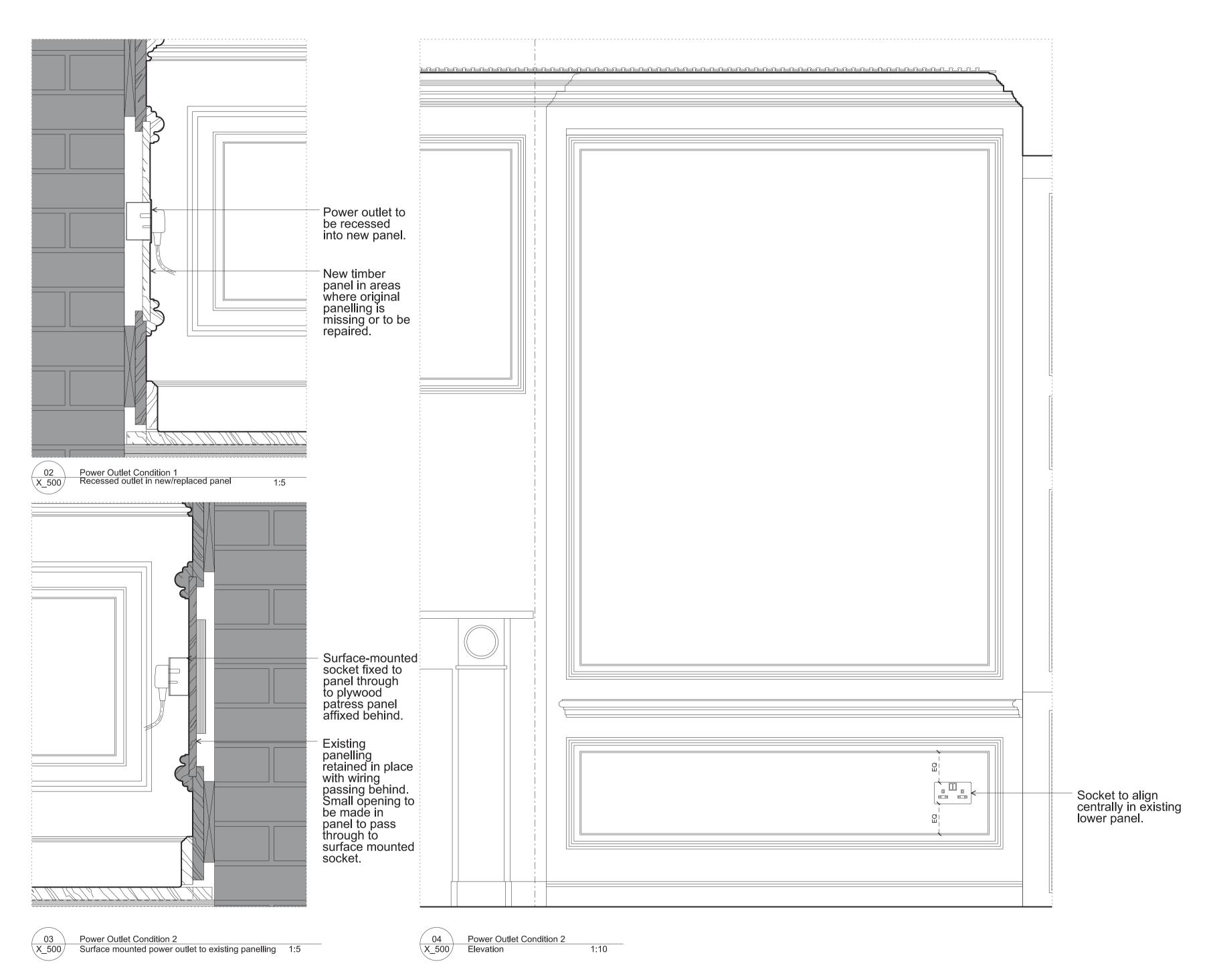


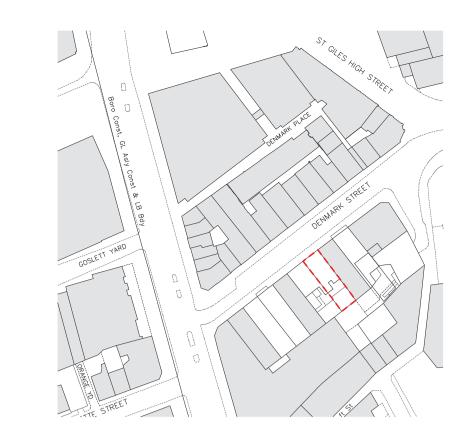


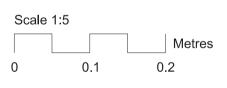


Note- Where existing – power outlets are provided at low level on skirting, outlet to be removed and skirting repaired.







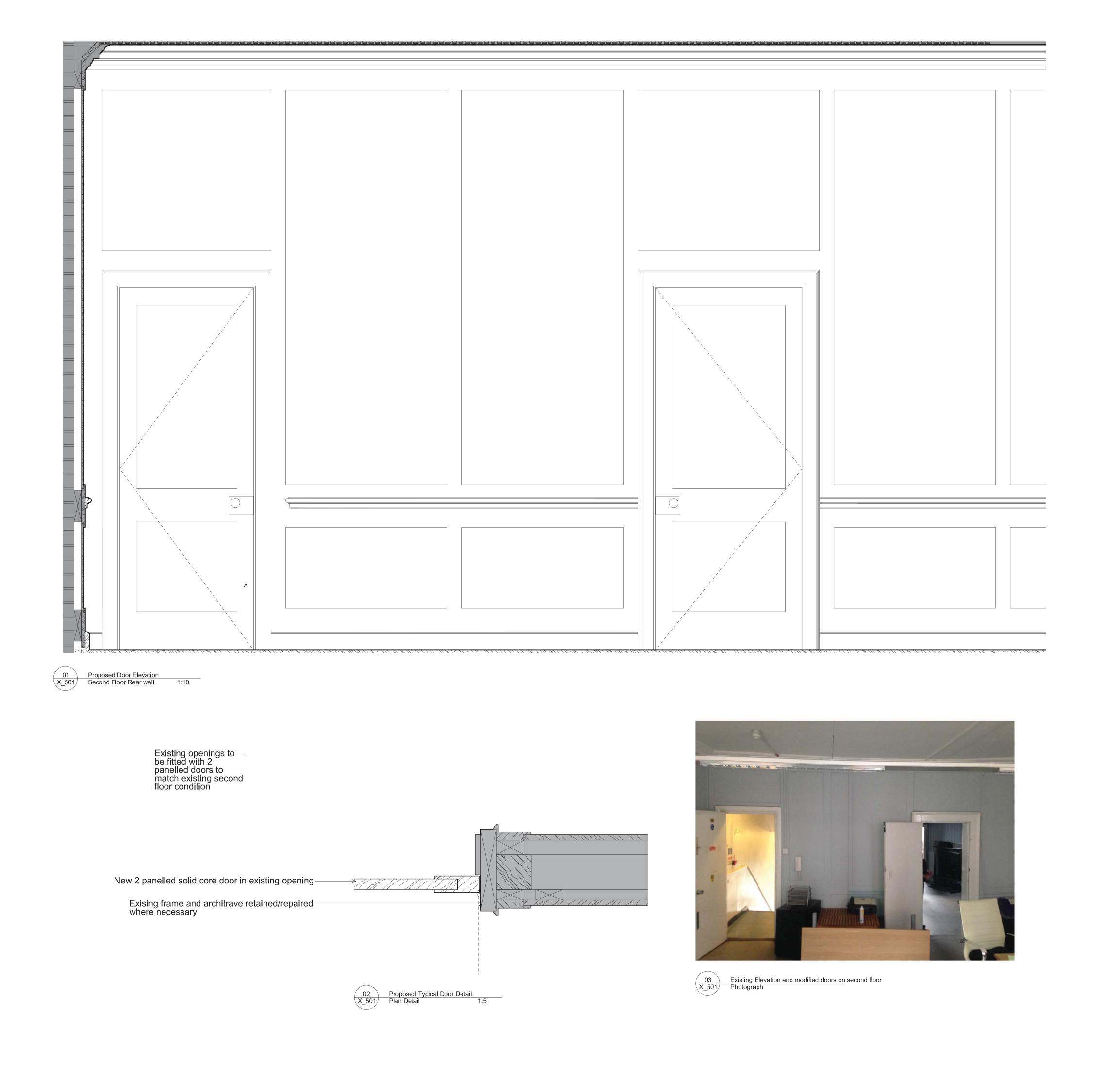


Revisions 01 Issued to LBC 26/09/17 Consolidated Ltd. St. Giles Circus - Zone 3 Drawing Title 6 Denmark Street Proposed Services Details Electrical Outlet Drawing Number 1401\_6D(X)500 Status APPROVAL Scale VARIOUS@A1 Date 21.09.2017 Drawn by NB

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Client

Consolidated Ltd.

St. Giles Circus - Zone 3

Drawing Title

Revisions

6 Denmark Street
Proposed Door Details

Drawing Number

Drawn by NB

1401\_6D(X)501

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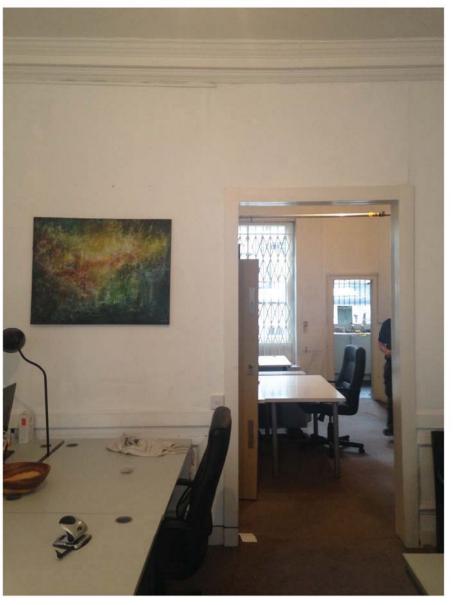
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Date 21.09.2017

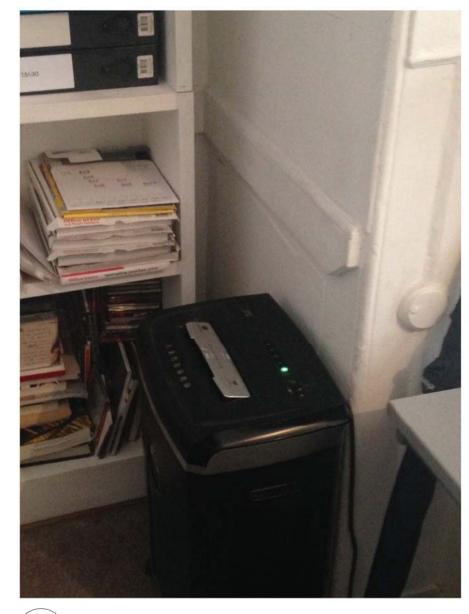


01 Existing Condition First Floor Front Room
X\_502 Original Panelling and dado removed previously - to be recreated

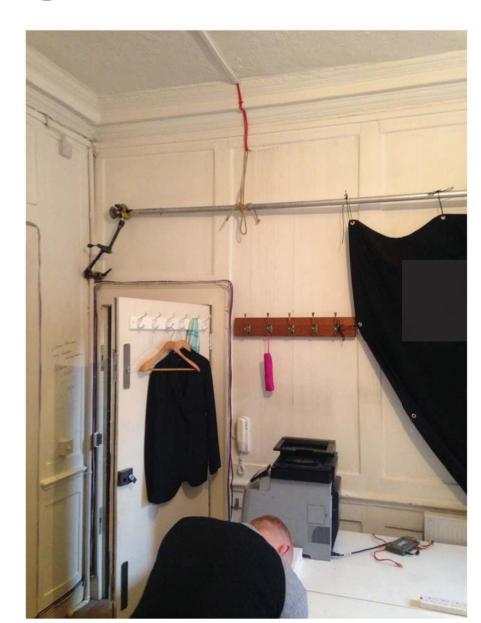


02 Existing Condition First Floor Rear Room

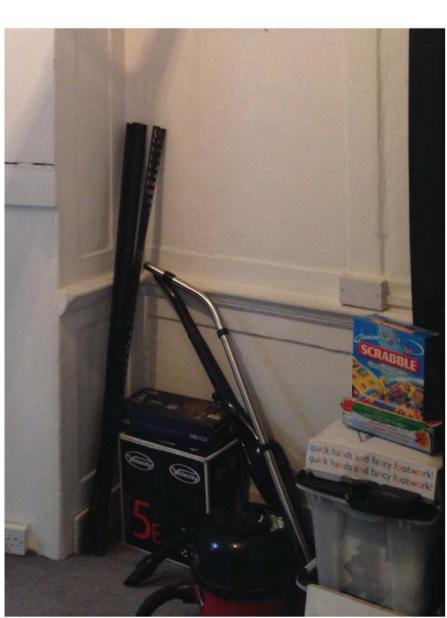
X\_502 Original Panelling mostly intact - to be retained and repaired



03 Existing Dado Images
X\_502 Condition 1 - Front Room



04 Existing Dado Images
X\_502 Condition 2 - Rear Room. Mostly intact



05 Existing Dado Images
X\_502 Condition 2 - Rear Room

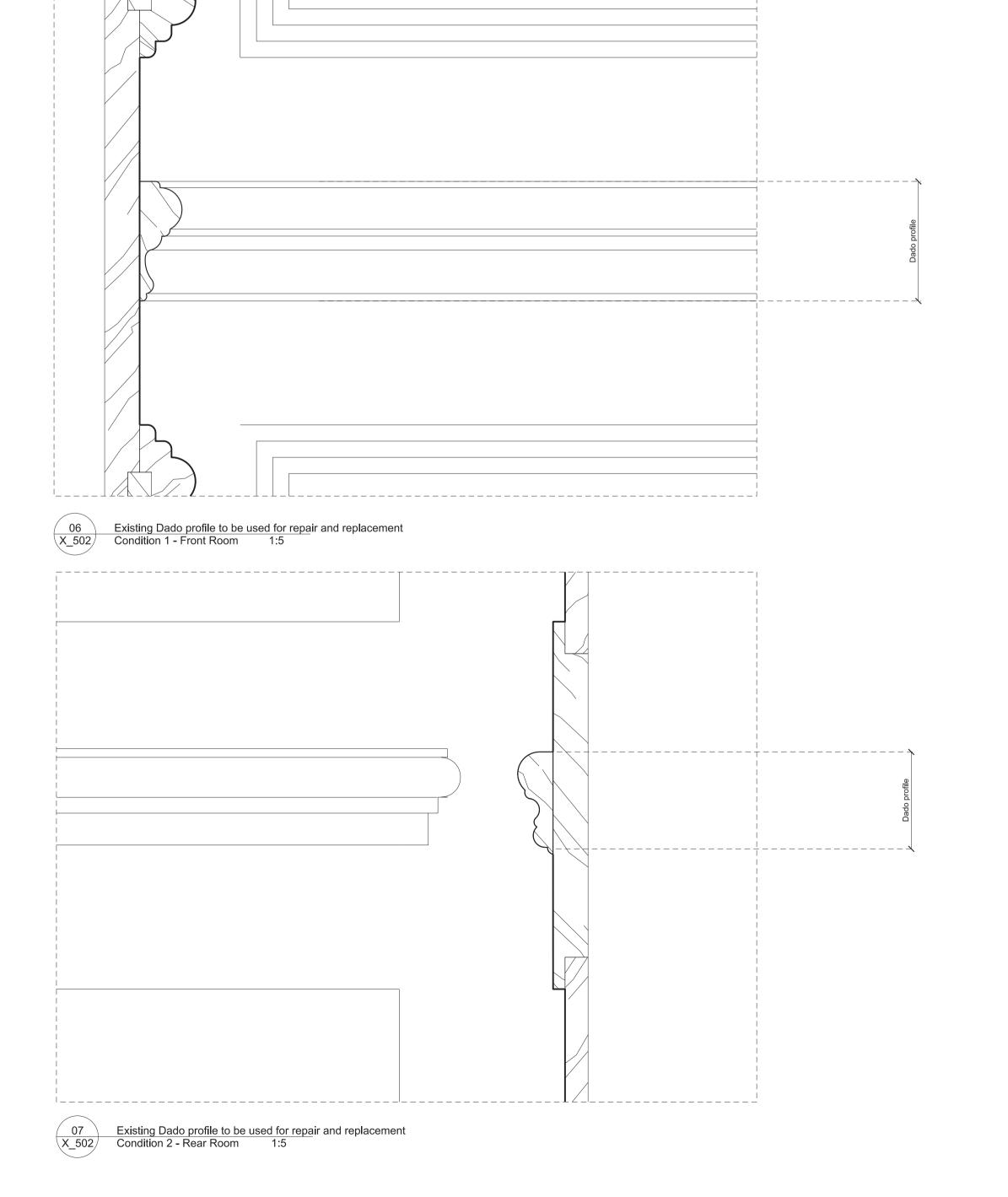




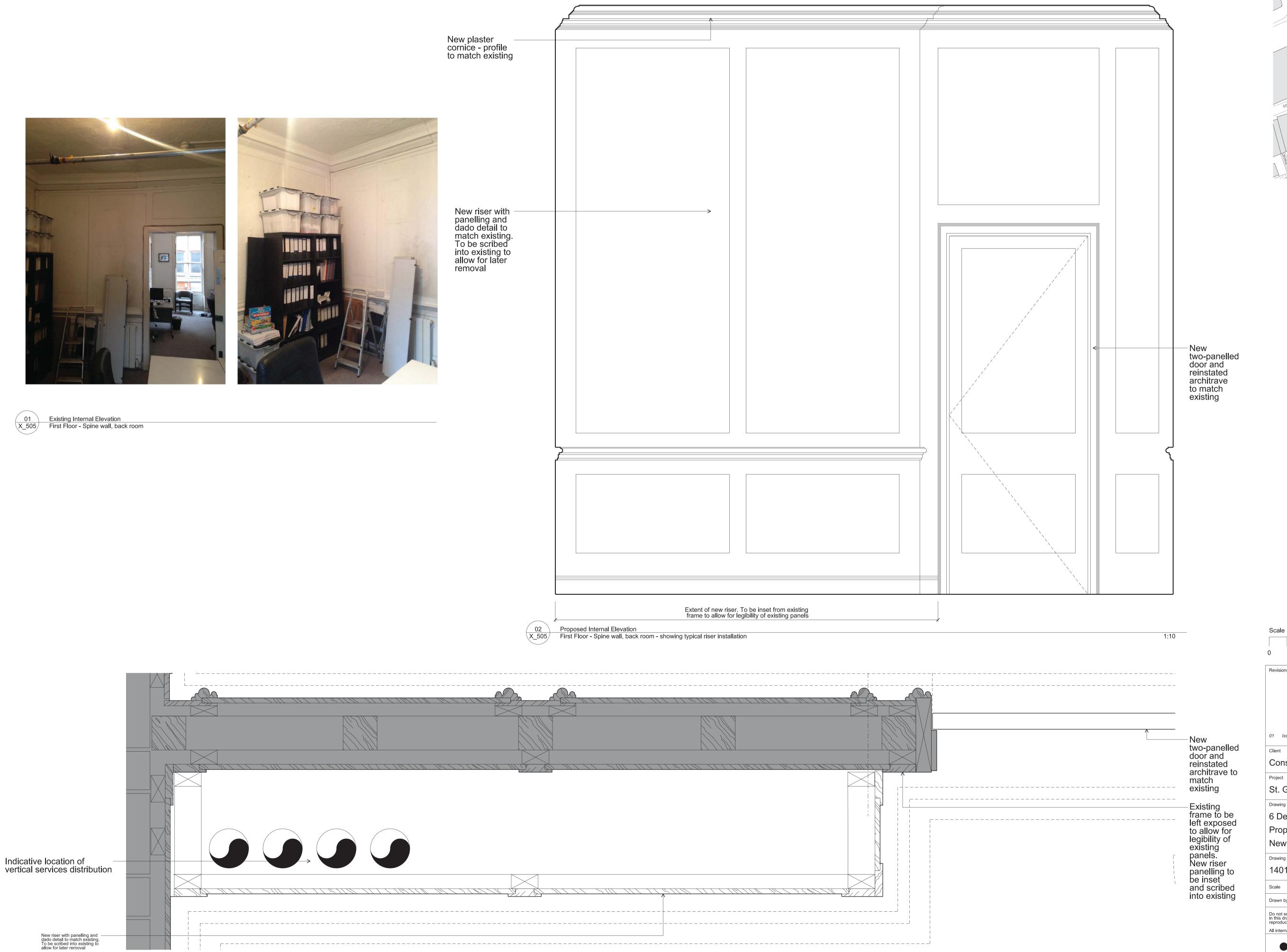
NOTE:

All instances of damaged or missing dado rails are to be repaired and reinstated in accordance to the details below

Front rooms have a more ornate profile to match the original, while rear rooms have simpler sections of dado







Proposed Typical Riser to Spine Wall
Plan Detail



Scale 1:5

Metres
0 0.1 0.2

Revisions

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Client

Consolidated Ltd.

Project

St. Giles Circus - Zone 3

Drawing Title

6 Denmark Street

Proposed Detail

New Riser to Spine Wall

Drawing Number

1401\_6D(X)505

Scale VARIOUS@A1 Status APPROVAL

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ica

70 Cowcross Street London EC1M 6EJ 02037807355 07785 973723



Existing Internal View
Ground Floor Hallway - Showing closed-up connecting door
and recently revealed panelling

Location of former connecting door - now closed off due to retail unit

New two-panel blind door - — located in position of former connecting door

Existing panelling with reinstated dado detail Repositioned entrance hall door with fanlight above Existing door to retail space retained Blind Door - to match panel jointing Proposed Internal Elevation
Ground Floor Hallway - Showing new blind door 1:10

Blind door to be introduced where former door opening has been infilled

Former doorway into retail

Hallway

Scale 1:5

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Revisions

Consolidated Ltd.

St. Giles Circus - Zone 3

Drawing Title

6 Denmark Street Proposed Detail

Hallway Blind Door Drawing Number

Drawn by NB

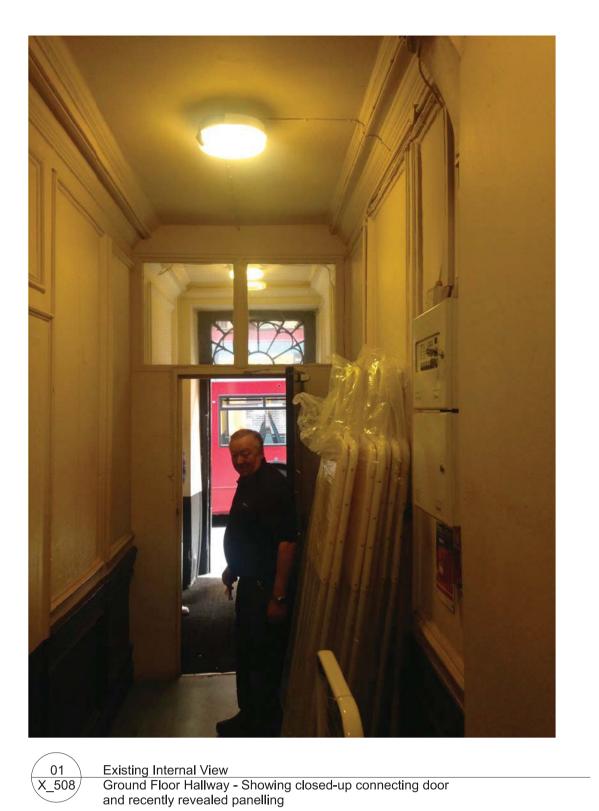
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Scale VARIOUS@A1 Status APPROVAL Date 21.09.2017

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03 (X) 508 THE SHIP TO SECTION AND THE SECTION OF THE SECTION Hallway door repositioned closer to the front door in order to fall in line with the layout of the existing panels and improve the reading of the space 04 (X) 508 Hallway Proposed Cupboard Hallway
Plan Detail



Scale 1:5 Revisions 01 Issued to LBC 26/09/17 Consolidated Ltd. St. Giles Circus - Zone 3 Drawing Title

6 Denmark Street

Proposed Detail

1401\_6D(X)508

Scale VARIOUS@A1

Drawing Number

Drawn by NB

Hallway Lobby Door

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1:20

Status APPROVAL

Date 21.09.2017

1:10