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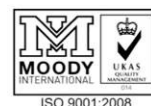
Project: 61 to 65 Charlotte street, London W1T 4PF Project No: 4610

Client: Holbud investments Engineer: C.A. Reynolds

Architect: Harper Downie Date: 18th February 2015

Basement Impact Assessment For the Basement works at

61 to 65 Charlotte street London W1T 4PF





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1.0 Introduction

A proposed part-alteration and part-redevelopment within the boundary of an existing row of 3 adjoining properties is being submitted for planning by our client. This scheme includes the lowering of an existing lower ground floor within the rear areas of 2 of the properties by approximately 1.57m. Additionally, the one storey basement in the remainder of the site is proposed to be lowered by 0.66m.

2.0 Relevant Planning policy

The London Borough of Camden development policy DP27 relates to basements and lightwells and requires developers to demonstrate that with methodologies appropriate to the site that schemes maintain the structural stability of the building and neighbouring properties; avoid adversely affecting drainage and run-off or causing other damage to the water environment; and avoid cumulative impact upon structural stability or water environment in the local area.

This basement impact assessment will enable the Council to assess whether the proposed development meets these requirements.

This assessment includes the following stages which have been adopted from the Camden planning guidance document CPG 4 'Basements and Lightwells' and with reference to the Camden 'Geological, Hydrogeological and Hydrological study'.

1 Screening to identify any matters of concern and determine if a full BIA is required or not.

2 Scoping to identify potential impacts

3 Site investigation and study to gain an understanding of the site and immediate surroundings

4 Impact Assessment to evaluate any direct and/or indirect implications of the proposed development

The report will review existing site data and provide preliminary assessment of the issues identified by the aforementioned screening process.

3.0 Details of the proposed development

This scheme is a residential refurbishment and vertical extension to 3 adjoined terrace properties along with a refurbishment of the underlying ground floor retail space.

The basement floor office space is to be lowered by approximately 0.66m to provide better head height for the modern high quality office space proposed.



The aforementioned basement occupies most of the site but, to the rear of 2 of the terraces, a slightly higher lower ground floor sits between basement and ground level.

For the purposes of this assessment the most relevant portion of the works is the lowering of this 162sqm (approximately 30% of the footprint) of the existing lower ground floor to the rear of numbers 63 and 65 by approximately 1.57m to match the remainder of the site.

The most relevant Architectural drawings are included in Appendix A along with some pages from the pre-application Design and Access statement (produced by Harper Downie in September 2014) which provides all information relating to the site location and its surroundings.

4.0 Initial desktop research and walkover survey findings

- The basement works would be considered modest in accordance with the guidance in DP27 in that it is not more than one storey or 3m in depth and does not extend beyond the footprint of the buildings.
- According to the Environmental Agency, the area is in flood Zone I i.e. not at risk of flooding from watercourses and suchlike. Record boreholes and maps suggest a water table lower than our lowest basement level with no significant history of flooding.
- The few significant flood events in the area were investigated and concluded that it was the inadequate capacity of the main sewer line to deal with the sudden and intense rainfall event that was the problem. The sewer reached full capacity quickly therefore allowing no more discharge from roads and other hard surface run-off areas. The works proposed would have no impact on such a scenario.
- The proposal would not increase the amount of surface water run-off as the whole site is currently of hard impermeable surfaces that drain to the sewer. Nor would it increase the amount of infiltrated water into the sub-surfaces as, currently no such SUDS measures are proposed.
- The location of the site is in a busy commercial part of the borough where most nearby premises would appear to contain basements with lightwells either open or covered over.
- Records up until 2010 show that, despite being one of the areas not affected by previous flooding, this area of the borough had significantly fewer basement applications than elsewhere. This is most likely due to the widespread existence of current basements.



5.0 Details of neighbouring properties

The adjoining buildings on all sides of the site have basements and, insofar as was possible to ascertain from the surveys carried out in occupied and live environments, these extend to the full perimeter of our boundary.

The survey at basement level together with sketches of the most relevant changes proposed and sketched sections across the site are included in Appendix B. These demonstrate the scale and relationship of our building's basement to the neighbouring properties.

6.0 Screening

The screening process is one that aims to determine what issues may of concern with the development and hence which need further investigation.

The flow charts provided within CPG 4 have been used to highlight these issues and the completed chart has been included here in tabular format.

Subterranean (groundwater) questions	Site and project specific response
1a. Is the site located directly above an aquifer?	Yes a Secondary Aquifer
1b. Will the proposed basement extend beneath the water table surface?	No, the surrounding open lightwells and un 'tanked' basements support the desktop findings that suggest the water table is below our lowest dig level
2. Is the site within 100 m of a watercourse, well (used/ disused) or potential spring line?	No known spring or well within 100 m of the site
3. Is the site within the catchment of the pond chains on Hampstead Heath?	No
4. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	No
5. As part of the site drainage, will more surface water (e.g. rainfall and run-off) than at present be discharged to the ground (e.g. via soakaways and/or SUDS)?	No
6. Is the lowest point of the proposed excavation (allowing for any drainage and foundation space under the basement floor) close to or lower than, the mean water level in any local pond or spring line?	No

Slope stability questions	Site and project specific response
1. Does the existing site include slopes, natural or manmade, greater than 7°?	No
2. Will the proposed re-profiling of landscaping at the site change slopes at the property boundary to more than 7°?	No
3. Does the development neighbour land, including railway cuttings and the like, with a slope greater than 7°?	No
4. Is the site within a wider hillside setting in which the general slope is greater than 7°?	No
5. Is the London Clay the shallowest strata at the site?	No
6. Will any trees be felled as part of the proposed development and / or are any works proposed within any tree protection zones where trees are to be retained?	No and no tree protection zones are known
7. Is there a history of seasonal shrink-swell subsidence in the local area and / or evidence of such effects at the site?	No
8. Is the site within 100 m of a watercourse or potential spring line?	No
9. Is the site within an area of previously worked ground?	No
10. Is the site within an aquifer?	Yes a Secondary 'A' Aquifer
11. Is the site within 50 m of Hampstead Heath ponds?	No
12. Is the site within 5 m of a highway or pedestrian right of way?	Yes the site is bound on one side by Charlotte street.
13. Will the proposed basement significantly increase the differential depth of foundations relative to neighbouring properties?	No, refer to site trial holes in Appendix C and basement sections in Appendix B
14. Is the site over (or within the exclusion zone of) any tunnels, eg railway lines?	No

Surface flow and flooding questions	Site and project specific response
1. Is the site within the catchment of the pond chains on Hampstead Heath?	No
2. As part of the proposed site drainage, will surface water flows (e.g. volume of rainfall and peak run-off) be materially changed from the existing route?	No.
3. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	No, the area and permeability type of surfaces will remain the same.
4. Will the proposed basement development result in changes to the profile of the inflows (instantaneous and long term) of surface water being received by adjacent properties or downstream watercourses?	No, all nearby properties will experience no change to the current situation
5. Will the proposed basement result in changes to the quantity of surface water being received by adjacent properties or downstream watercourses?	No, all nearby properties will experience no change to the current situation
6. Is the site in an area known to be at risk from surface water flooding such as South Hampstead, West Hampstead, Gospel Oak and Kings Cross, or is it at risk of flooding because the proposed basement is below the static water level of a nearby surface water feature?	No, it is neither a primary or secondary street identified as being at risk of surface water flooding

Therefore this results in the following issues requiring scoping for further investigation:

- a.) The site is underlain by a secondary aquifer
- b.) The site is adjacent to a public highway

7.0 Scoping

The scoping process is required to assess in more detail the factors to be investigated in the impact assessment. Potential consequences are assessed for each of the identified potential impact factors highlighted by the previous screening. The issues highlighted have been tabulated below to show the potential impacts and consequences they may have.

Issues highlighted by screening	Possible consequences
The site is within an aquifer	Any potential dewatering to aid dry construction works can cause ground settlement which could extend beyond a site boundary and affect neighbouring structures. Similarly, an increase in water levels can have a detrimental effect on stability
Site within 5 m of a highway or pedestrian right of way	Excavation of a basement may result in structural damage to the road or footway.



8.0 Site investigation

In order to better understand the site and the impact the basement works will have on ground and adjoining structures, several exploratory trial holes were undertaken within the properties. The locations and findings are sketches and included within Appendix C.

Our initial desktop and walkover survey in section 4.0 above allowed us to have confidence that, given the modest depths involved and the surrounding similar basement depth and extents, such a limited investigation was adequate.

The greatest outcome of the explorations which is clear from the sketches was the conclusion that the primary walls to the boundary of the site extend to a depth at least comparable to the proposed depth. This was as expected given the surrounding basements but it helpfully shows that the walls do not rely on the current basement slab for stability or bearing capacity.

This means that, apart from *potential* shallow 200-400mm of underpinning in some areas, the excavations will not cause any instability or loss of bearing capacity of adjoining structural walls.

It is believed that the area at lower ground floor that is proposed to be lowered was originally an external courtyard with less structurally significant walls having been build off a 'yard slab'. The basement retaining walls to the adjoining property were found to be either deeper 'party walls' or separate walls beyond the less significant ones.

Furthermore, all trial holes showed completely vertically stable and dry excavations for their full depth. This would allow us to be confident that the excavations will require no complex temporary works such as sheet piling or dewatering and thus remove the impact risk associated with same.

9.0 Basement Impact Assessment

The screening highlighted two potential impacts. The desk study, walk over and ground investigation information has been used below to review the potential impacts, to assess the likelihood of them occurring and the scope for reasonable engineering mitigation.

Possible impact	Investigation conclusions
The site is underlain by an aquifer	The investigations showed that, despite the site being underlain by a secondary aquifer, dewatering or other works that would extend to this level, will not be required to complete the works.
The site is adjacent to a public highway	The proposals are for minimal lowering of the existing basement adjacent to the highway. The distance from the highway is more than 3m yet the excavated depth will be less than 1m. Therefore, this is not considered a significant risk.



10.0 Conclusion

Based on the comments received following the Planning pre-application meeting for the works proposed at 61-65 Charlotte Street, London, an appropriated scaled Basement Impact Assessment has been carried out to assess any potential impacts from the scheme.

As a result of said assessment, it is considered that the proposals are unlikely to have any detrimental impact on the land or slope stability, the hydrogeology and hydrology of the site nor the adjacent and adjoining structures.

Christopher Reynolds
MEng (hons) CEng MStructE

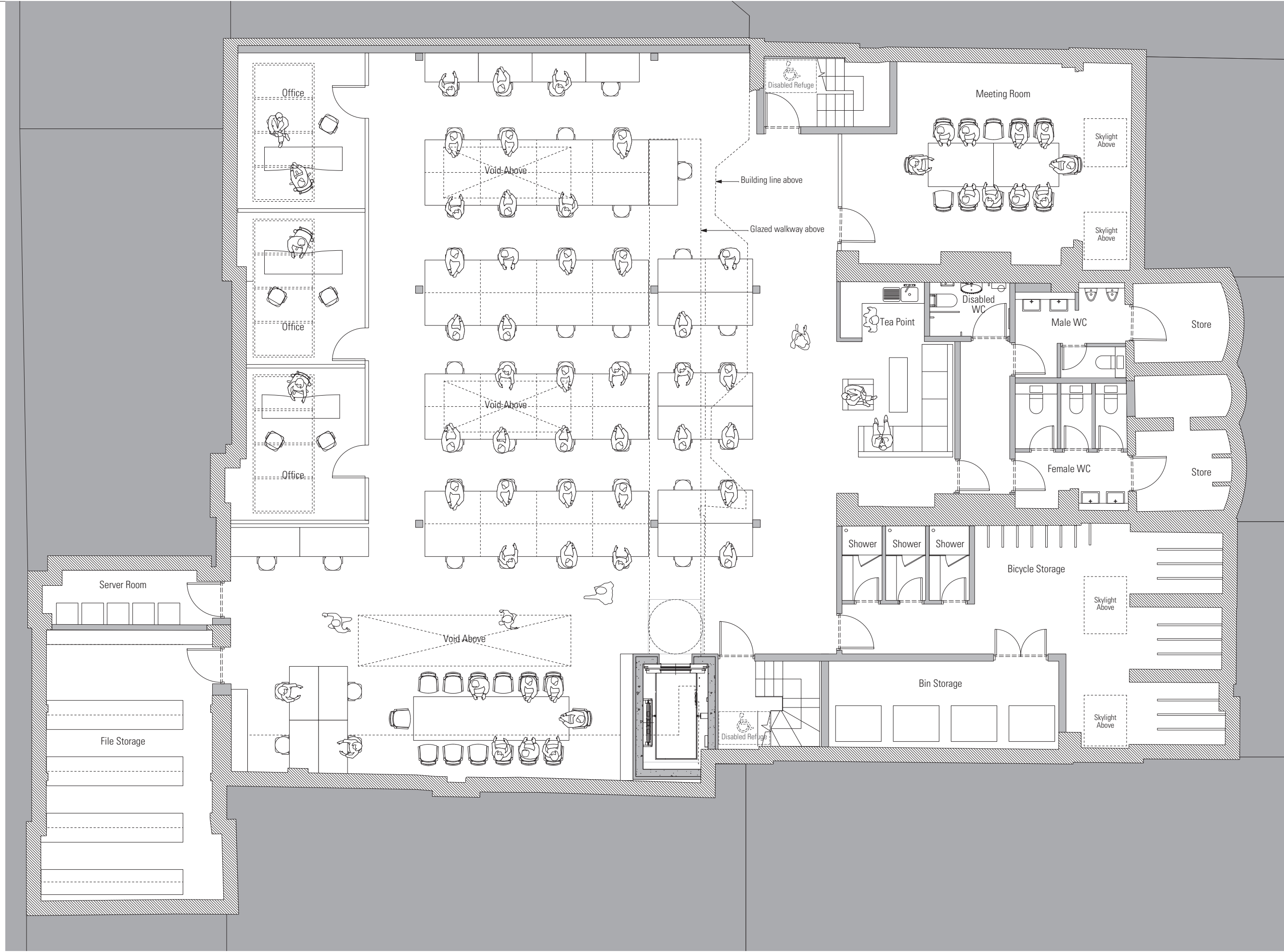
This Report is for the sole use of the above Client and may not be passed on or used by a third party for any reason. It may be used by the Client's professional advisors only in discussing aspects of the property. If the Report is used by a third party I accept no liability for any decision they may reach regarding the property.



Appendix A Architectural General arrangement drawings

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Notes



P1 12/2/15 Issued for Planning Application

Revisions



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Client
Hollbud Investments

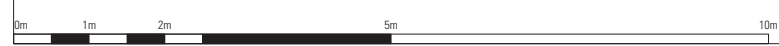
Project
61-65 Charlotte Street

Drawing Title
General Arrangement
Proposed Lower Ground Floor Plan
Option A - Open Plan

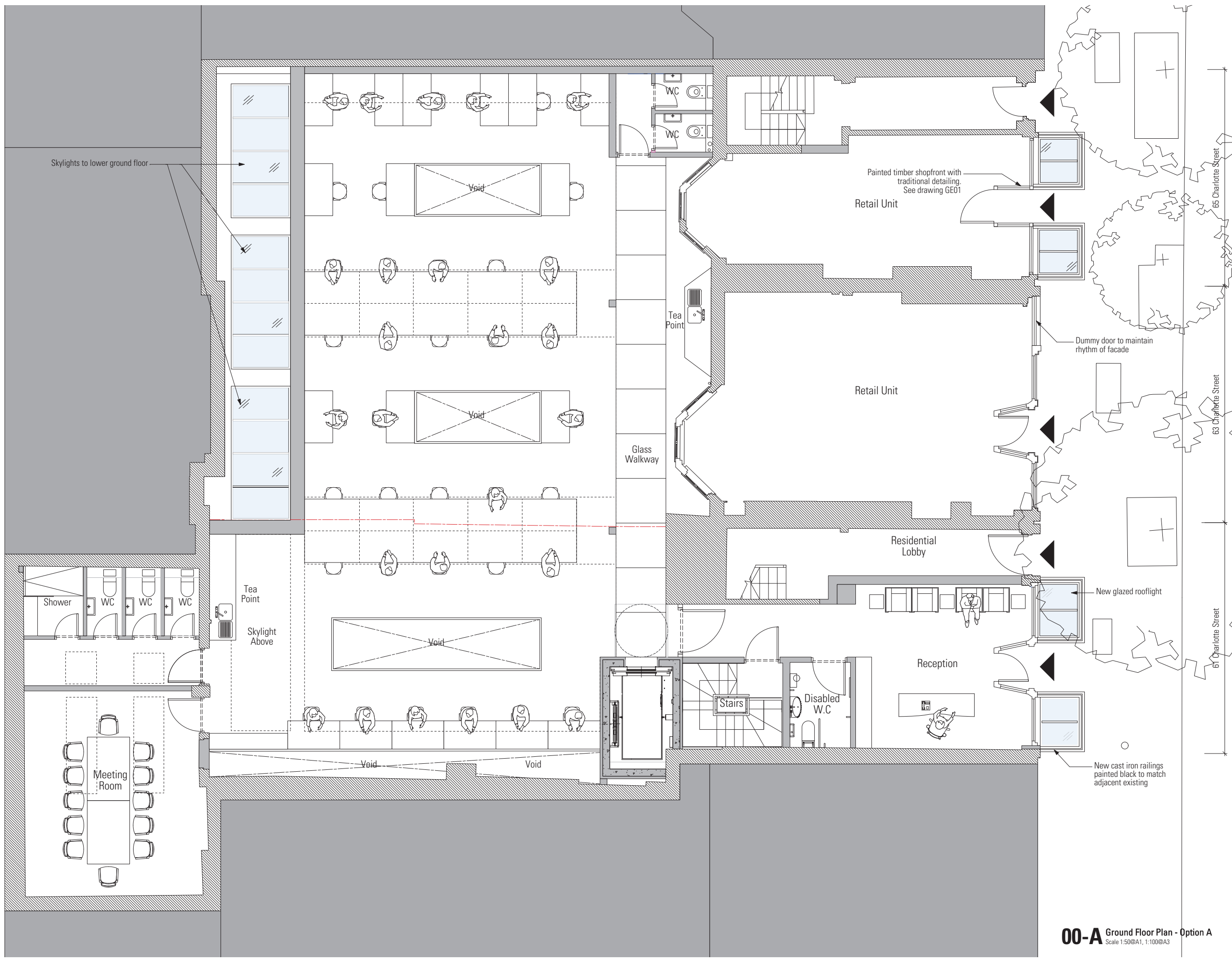
Status Planning	Drawn COD	Checked NM
Scale 1:50 @A1/ 1:100 @A3	Date Feb 2015	

Drwg. No. & Revision
696-GALG-OptA-P1


LG-A Lower Ground Floor Plan - Option A
Scale 1:50@A1, 1:100@A3



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00-A Ground Floor Plan - Option A
Scale 1:50@A1, 1:100@A3

Notes		
P1 12/2/15 Issued for Planning Application		
Revisions		
		
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Gate House 1 St John's Square London EC1M 4DH T +44 20 7490 7674 studio@harperdownie.com www.harperdownie.com		
Client	Holbud Investments	
Project	61-65 Charlotte Street	
Drawing Title	General Arrangement Proposed Ground Floor Plan Option A - Open Plan	
Status	Drawn COD	Checked NM
Scale	1:50 @A1/ 1:100 @A3	
Drwg. No. & Revision	Date Feb 2015	
696-GA00-OptA-P1		

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Flat roof with single ply / bitumen membrane finish

No. 65 Charlotte St.
Long leasehold tenant - does not form part of proposal

65 Charlotte Street

63 Charlotte Street

61 Charlotte Street

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Project
61-65 Charlotte Street

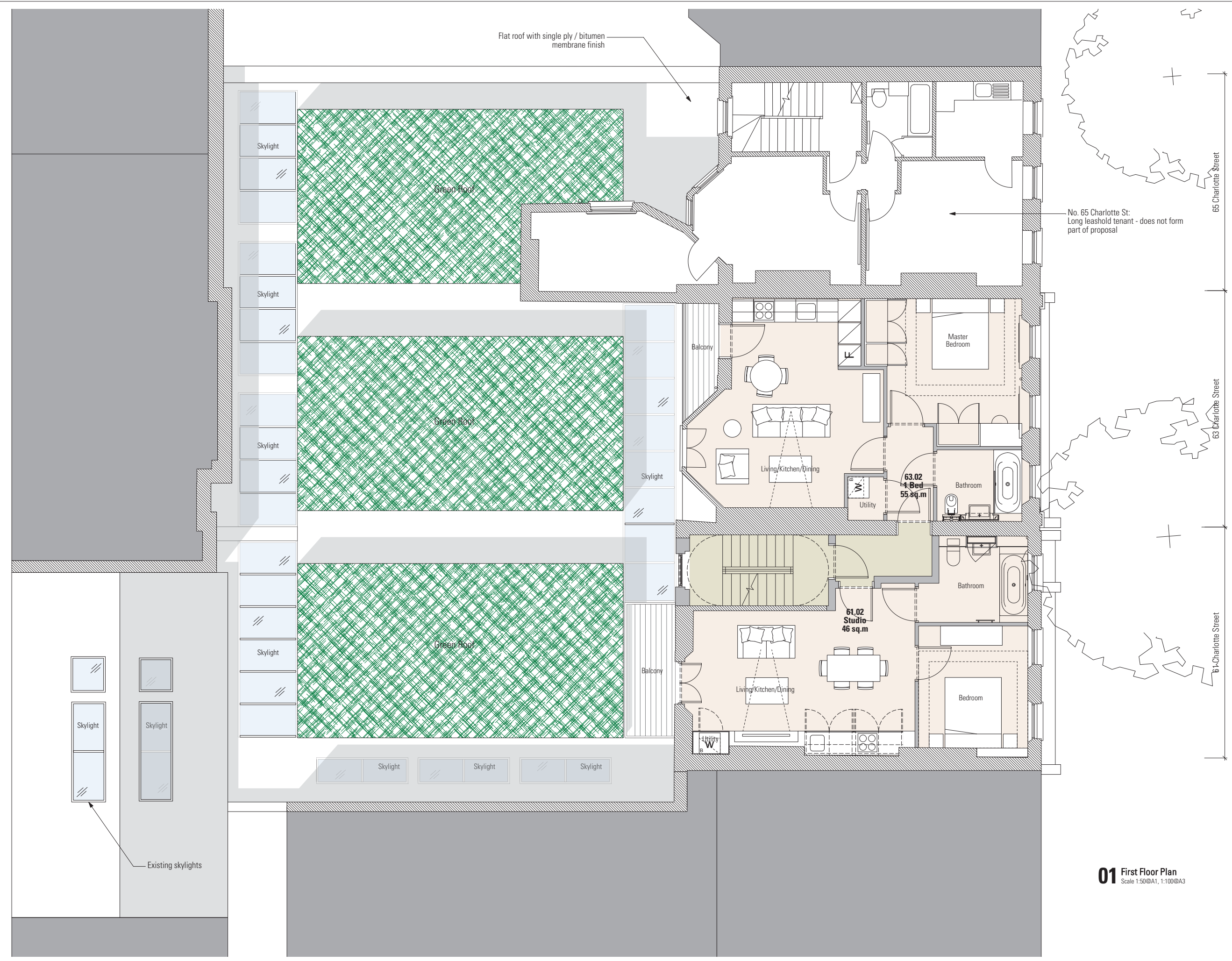
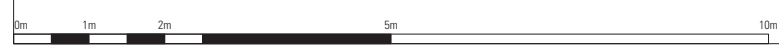
Drawing Title
General Arrangement
Proposed First Floor Plan

Status
Planning Drawn Checked

Scale
1:50 @A1/ 1:100 @A3 Date
Feb 2015

Drwg. No. & Revision
696-GA01-P1

01 First Floor Plan
Scale 1:50@A1, 1:100@A3



Existing skylights



Appendix B Basement survey, overview sketches and sections of changes proposed

Rev	Date	By	Amendment

LEGEND

ABBREVIATIONS

B	BOLLARD	HW	MANHOLE
BOE	BRICK ON EDGE	OTI	OVER HEAD
BT	BRITISH TELECOM	P	POST
B/W	BRICK WALL	P/L	PARCHMENT LIGHT
CATV	CABLE TELEVISION	RAD	RADIATOR
CF	CORNER FALL	RE	ROOFING EYE
CL	COVER LEVEL	RS	ROAD SIGN
CONC	CONCRETE FRESH	RSU	ROLLED STEEL JOIST
COU	COVER CATCH UNKNOWN	RSS	ROLLED STEEL STANCHION
CPD	CUPBOARD	SP	SOIL POST
DK	DRINK KEYS	SC	STOP COCK
DL	DERIVED LEVEL	SP	SOIL VENT PIPE
ELEC	ELECTRICAL	TL	TRAFFIC LIGHT
ELC	ELECTRICAL	TR	TREE HANDBOOK
F/B	FLOWER BED	TP	TELEPHONE POLE
FAR	FLAT ASPHALT ROOF	UTL	UNABLE TO LIFT
G	GULLY	VP	VENT PIPE
GV	GAS VALVE	VTF	VINYL TILED FLOOR
H/W	HIGH LEVEL WINDOW	WC	WATER CLOSET
IC	INSPECTION COVER	WSB	WASH HAND BASIN
L/L	LOW LEVEL	WV	WATER VALVE
LP	LAMP POST	Ø	DIAMETER

--- OVERHEAD DETAIL
 --- BARRIER OR FENCE
 --- CHANGE IN SURFACE
 X GATE
 Δ SURVEY STATION

HEIGHTS

C HEIGHT FROM FLOOR TO CILL
 H HEIGHT FROM CILL TO HEAD
 SP HEIGHT FROM FLOOR TO SPRING OF ARCH
 AH HEIGHT FROM FLOOR TO HEAD OF ARCH
 (C/M) HEIGHT TO CEILING, BEAM OR DOOR
 S/C STRUCTURAL CEILING HEIGHT
 F/C FALSE CEILING HEIGHT
 DL DEDUCED LEVEL DERIVED FROM PLUS MEASUREMENTS

TREES

Ø DIAMETER(mm)
 S SPREAD(mm) diameter
 H HEIGHT(mm)
 ALL TREE HEIGHTS SHOWN IN (mm)

LEVELS ARE RELATED TO ORDNANCE SURVEY DATUM BY MEANS OF GPS OBSERVATIONS TO CONTROL POINTS WHERE A MEAN VALUE HAS BEEN OBTAINED

3sixty measurement

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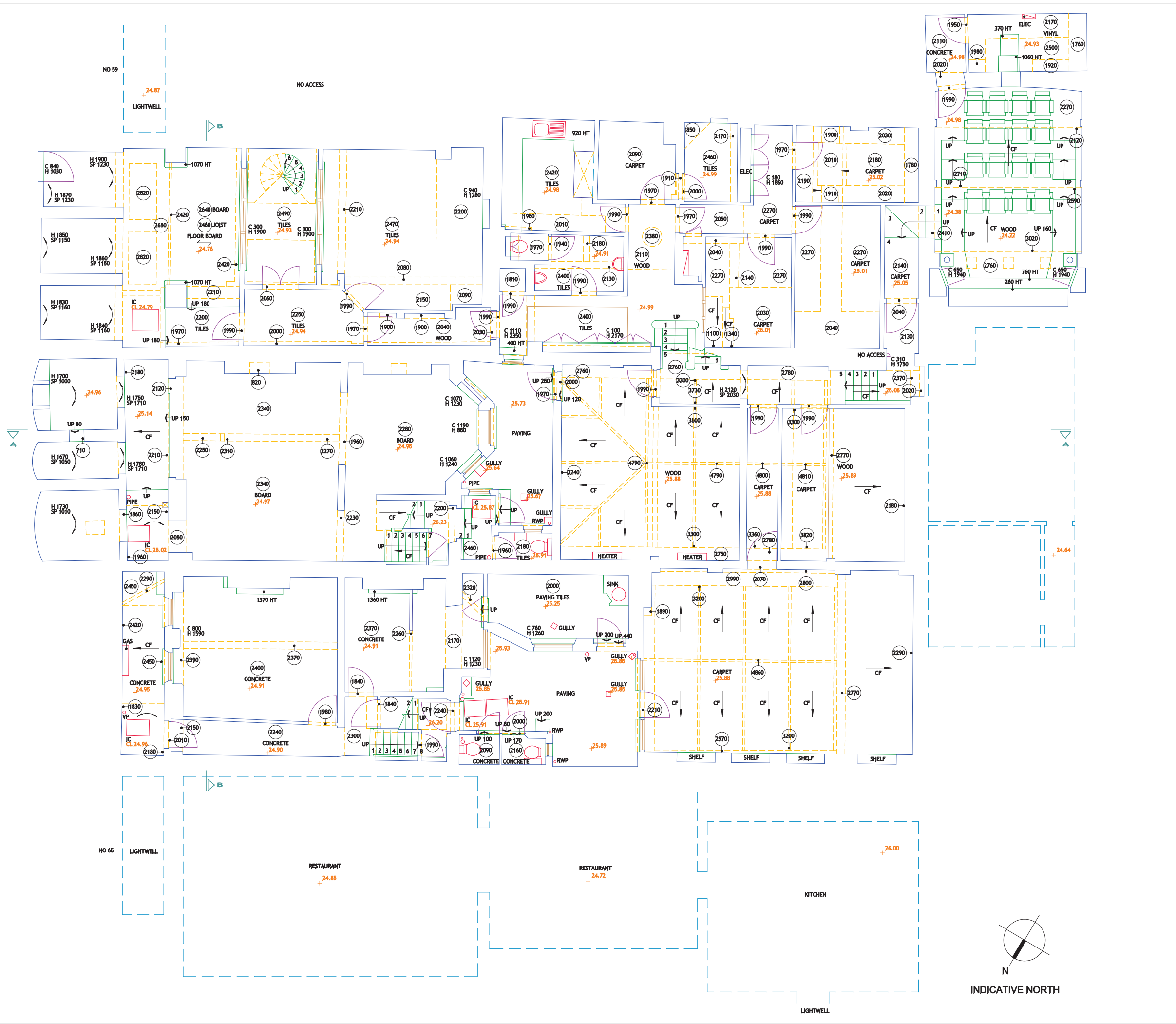
Client: **MERCHANT LAND INVESTMENTS LIMITED**

Project: **61-65 CHARLOTTE STREET**

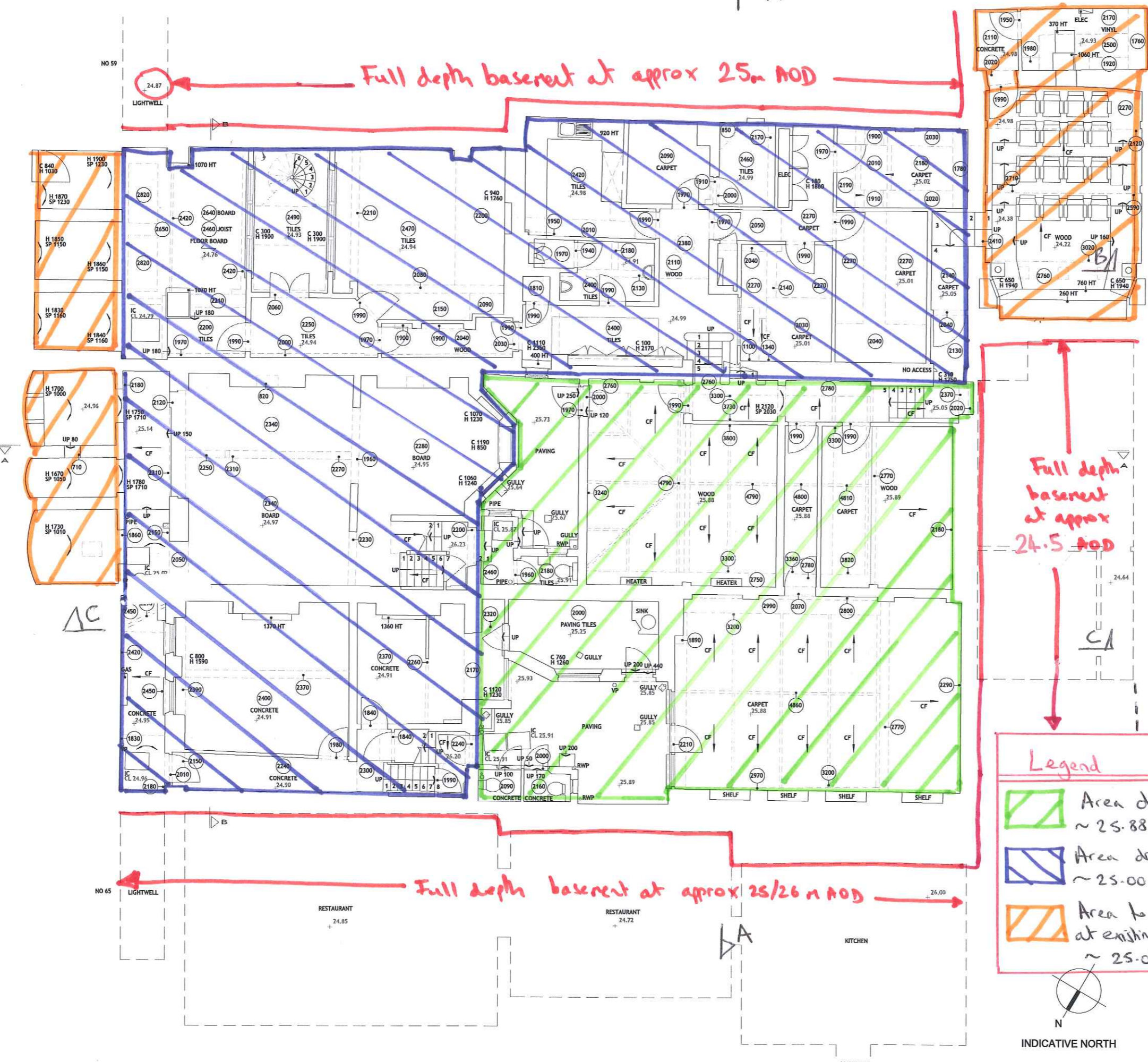
Drawing: **LEVELS TO NEIGHBOURING PROPERTIES BASEMENT**

Date: **JAN 2014** Scale: **NTS** Drawn by: **GAJ**
 Checked by: **SW**

Project No: **13478** Drawing No: **-SK01** Revision:



PA



Rev	Date	By	Amendment

LEGEND			
ABBREVIATIONS			
B	BOLLARD	RH	RAMP
BOE	BRICK ON EDGE	OH	OVER HEAD
BOX	BOXING	P	POST
BT	BRICK TELECOM	P/L	PANEMENT LIGHT
B/W	BRICK WALL	R	RADIATOR
CATV	CABLE TELEVISION	RE	ROOFING EYE
CF	CEILING FALL	RS	ROAD SIGN
CL	COVER LEVEL	RJ	ROLLED STEEL JOIST
CONC	CONCRETE FINISH	RSS	ROLLED STEEL STANCHION
COB	COVER COUGH UNKNOWN	RWP	RAIN WATER PIPE
CPD	CUPBOARD	SC	STOP COCK
DK	DROP KEYS	SP	SIGN POST
DL	DERIVED LEVEL	SVP	SOIL VENT PIPE
ELEC	ELECTRICAL	TL	TRAFFIC LIGHT
ER	EARTHING ROD	TH	TREE HINDER
F/B	FLOOR BED	TP	TELEPHONE POLE
FAR	FLAT ASPHALT ROOF	U/L	UNABLE TO LIFT
G	GULLY	VP	VENT PIPE
GV	GAS VALVE	VTF	VINYL TILED FLOOR
H/W	HIGH LEVEL WINDOW	WC	WATER CLOSET
IC	INSPECTION COVER	WHB	WASH HAND BASIN
L/L	LOW LEVEL	WV	WATER VALVE
LP	LAMP POST	Ø	DIAMETER

HEIGHTS

- C HEIGHT FROM FLOOR TO CILL
- H HEIGHT FROM CILL TO HEAD
- SP HEIGHT FROM FLOOR TO SPRING OF ARCH
- AH HEIGHT FROM FLOOR TO HEAD OF ARCH
- Ø HEIGHT TO CEILING, BEAM OR DOOR
- S/C STRUCTURAL CEILING HEIGHT
- F/C FALSE CEILING HEIGHT
- DL DEDUCED LEVEL, DERIVED FROM PLUS MEASUREMENTS

TREES

- Ø DIAMETER(mm)
- S SPREAD(mm) diameter
- H HEIGHT(mm)
- ALL TREE HEIGHTS SHOWN IN (mm)



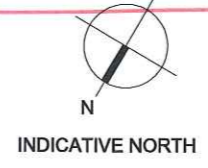
STRUCTURAL AND CIVIL CONSULTING ENGINEERS

Legend

- Area dropped from ~ 25.88 to 24.31
- Area dropped from ~ 25.00 to 24.31
- Area to remain at existing level ~ 25.00 / 24.22

Overview of Proposed works to existing lower ground floor.

Client		
MERCHANT LAND INVESTMENTS LIMITED		
Project		
61-65 CHARLOTTE STREET		
Drawing		
Basement alterations		
Date	Scale	Drawn by
Feb 15	NTS	
Project No	Drawing No	Revision
4610	GA-01	





bwm

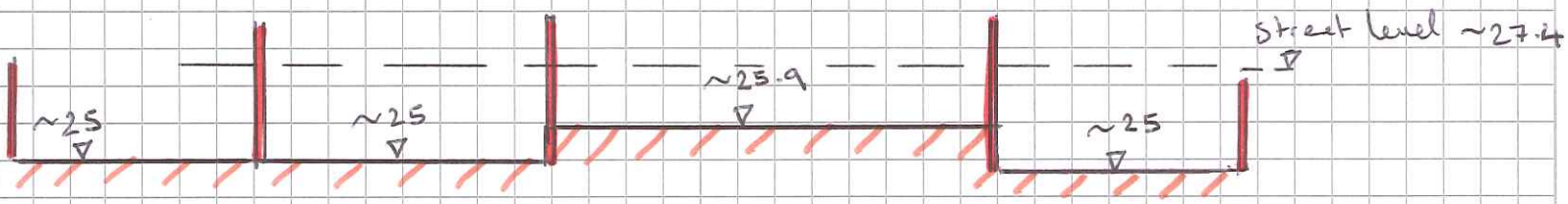
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Element ▶	basement input sections	Page No ▶	GA-02
Date ▶	Feb 15	Made By ▶	CAN
		Checked By ▶	

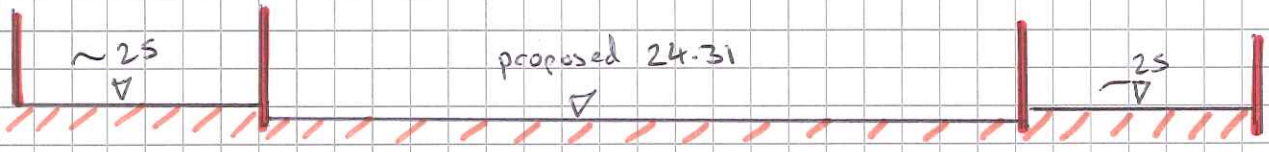
REF

OUTPUT

59 Charlotte st- *-----* 61-65 Charlotte street *-----* 67 Charlotte street



As existing A-A



As proposed A-A

Scale = 1:200 vertically & horizontally



bwm

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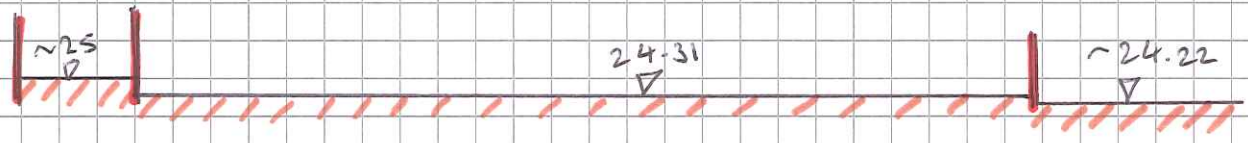
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Element ▶	basement input sections	Page No▶	GA-03
Date ▶	Feb 15	Made By ▶	CR-
		Checked By ▶	

REF

Vault Cellar ← → 61 Charlotte street → → Cinema part of 65 Charlotte street



As existing B-B



As proposed B-B

Scale = 1:200 vertically & horizontally

OUTPUT

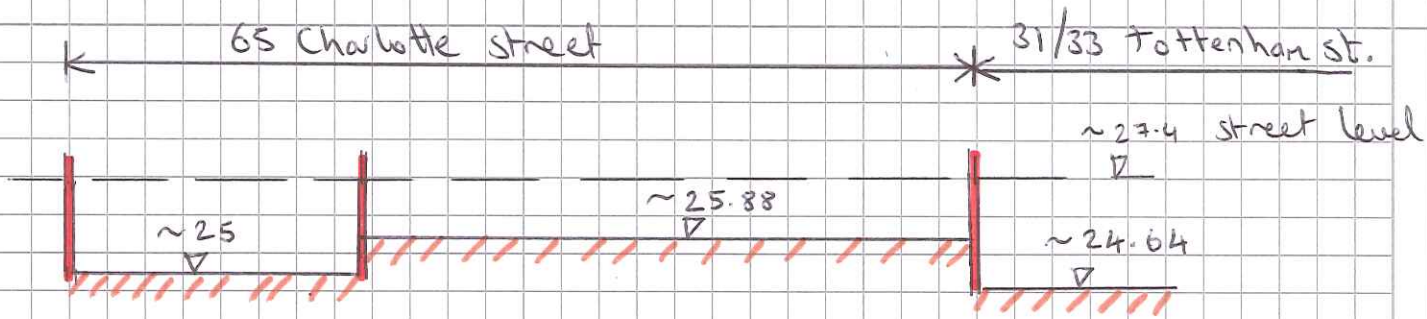


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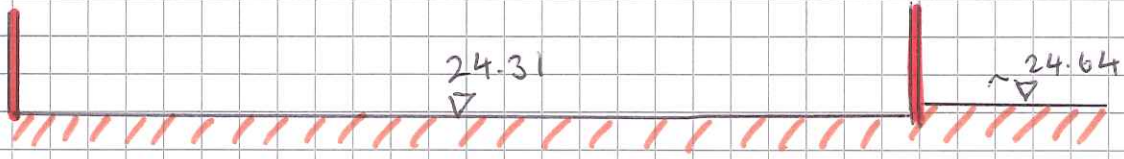
STRUCTURAL AND CIVIL CONSULTING ENGINEERS

Project ▶	61-65 Charlotte street	Project Ref ▶	4610
Element ▶	Basement impact sections	Page No ▶	GA-04
Date ▶	Feb 15	Made By ▶	AM
		Checked By ▶	

REF



As existing C-C



As proposed C-C

Scale = 1:200 vertically & horizontally.

OUTPUT



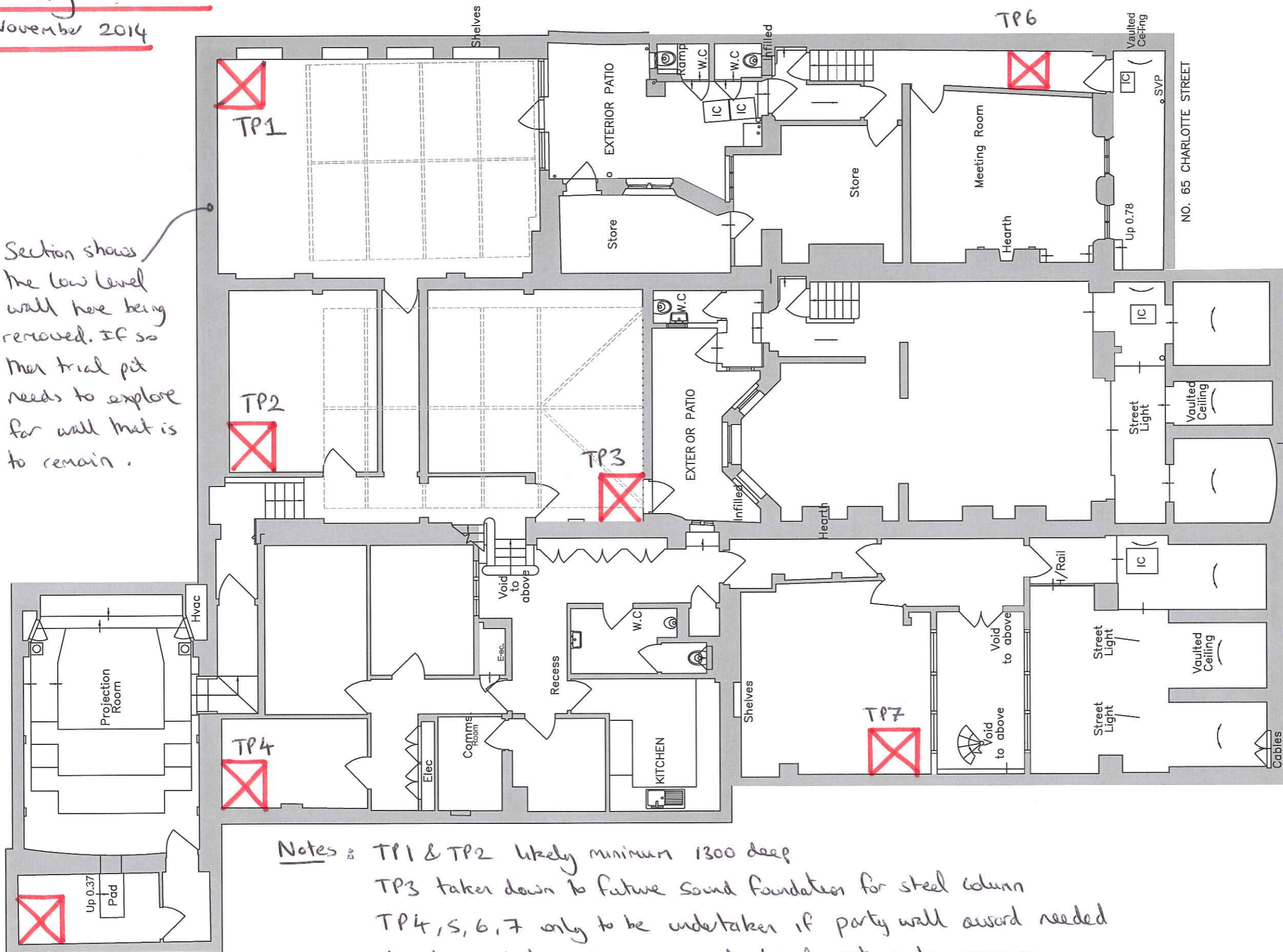
Appendix C Site investigation exploratory trial holes

General sketch of proposed trial pits

Drawing No. SK01

November 2014

Section shows the low level wall here being removed. If so then trial pit needs to explore for wall that is to remain.



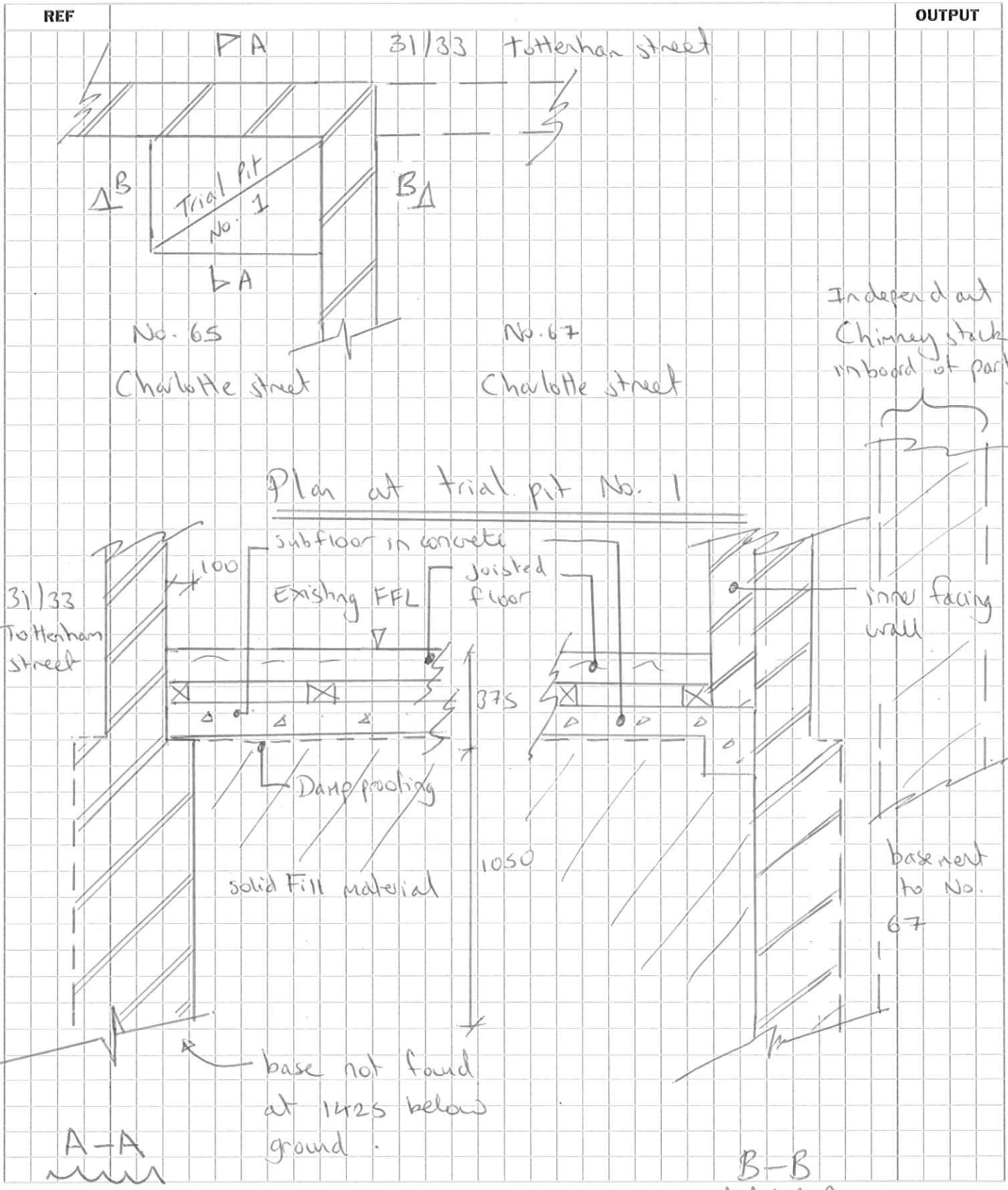
Notes : TP1 & TP2 likely minimum 1300 deep
 TP3 taken down to future sound foundation for steel column
 TP4, 5, 6, 7 only to be undertaken if party wall award needed due to need to reduce ground level either to increase floor to ceiling or to provide new truck build-up of e.g. slab, insulation, dpm, tanking, drained cavity, screed etc.

Existing Lower Ground Floor

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Notes		
Existing building fabric		
P1 26/14 Issue for Pre-App		
Revisions		
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Client	Holbud Investments	
Project	61-65 Charlotte Street	
Drawing Title	Existing General Arrangement Plans Lower Ground Floor	
Status	Drawn	Checked
Planning	NM	GO
Scale	Date	
1:100@A3	Aug '14	
Drwg. No. & Revision P818-GALGEX-P1		

Project ▶ 61-65 Charlotte street		Project Ref ▶ 4610
Element ▶ Site investigatory works		Page No ▶ 1
Date ▶ Dec 14	Made By ▶ C-A Reynolds	Checked By ▶



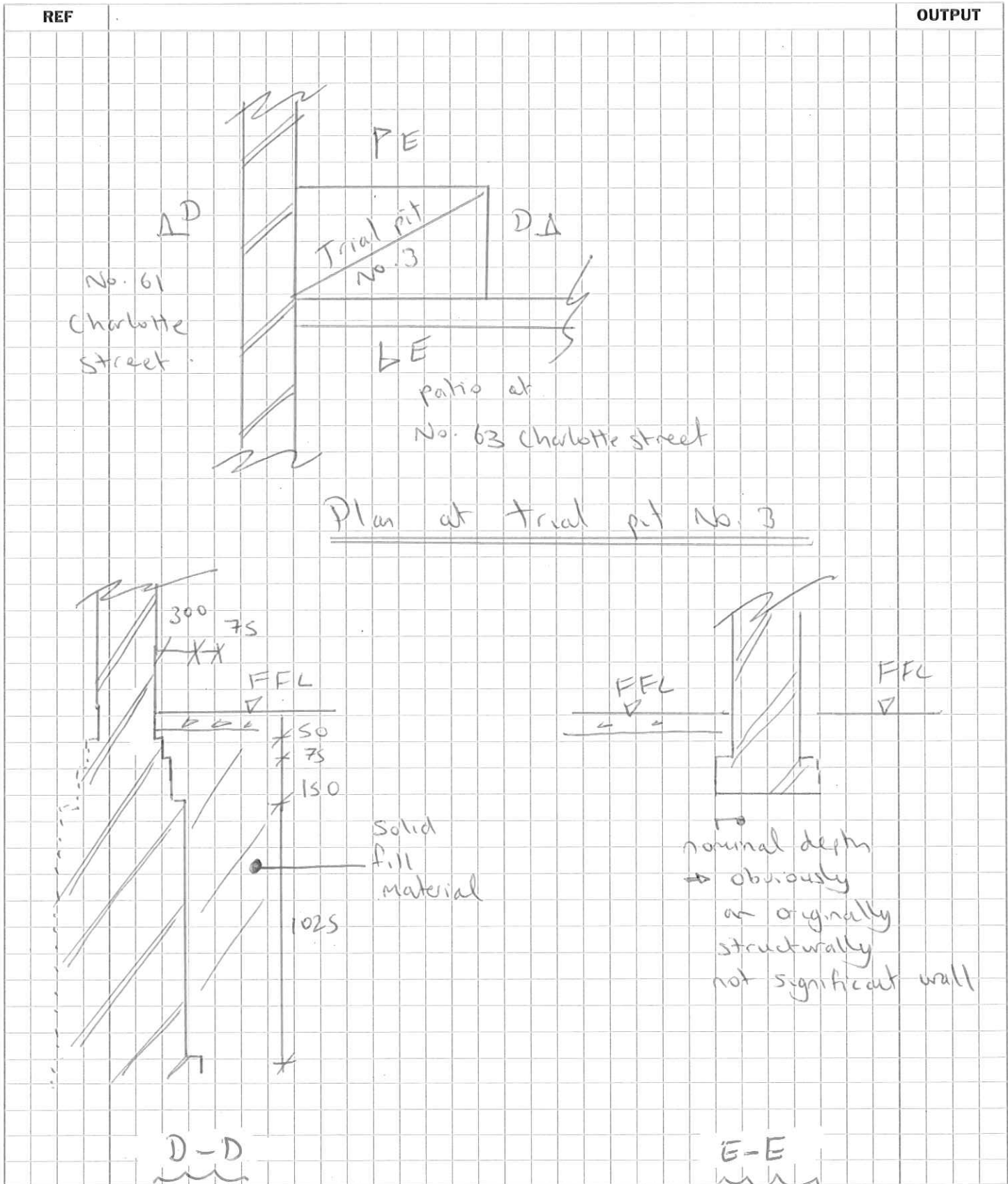


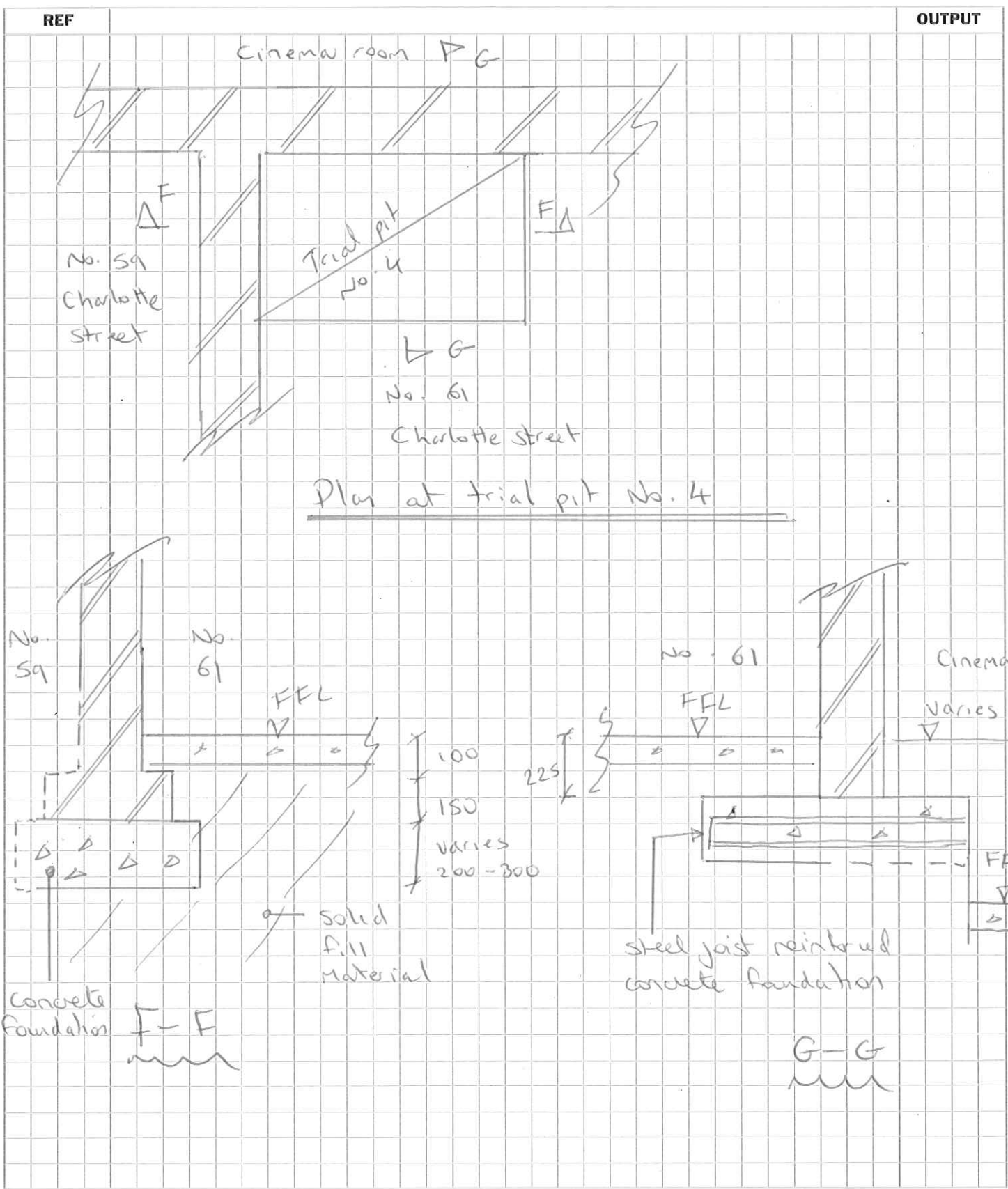
Project ▶		Project Ref ▶
61-65 Charlotte street		4610
Element ▶		Page No ▶
Site investigatory works		2
Date ▶	Made By ▶	Checked By ▶
Dec 14.	CAR	

AC

REF	OUTPUT
	<p>31/33 Tottenham street</p> <p>No. 63/65 Charlotte street.</p> <p>BC</p> <p><u>Plan at Trial pit No. 2</u></p> <p>31/33 Tottenham street</p> <p>63/65 Charlotte street</p> <p>inner facing wall</p> <p>base not found at approx 1500 below floor level.</p> <p>C-C</p>

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		Checked By ▶	







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Element ▶ Site investigatory works		Page No ▶ 5
Date ▶ Dec 14	Made By ▶ CAR.	Checked By ▶

REF	OUTPUT
	<p style="text-align: center;">Cinema projection room</p> <p style="text-align: center;"><u>Plan at trial pit No. 5</u></p> <p style="text-align: center;">H-H</p> <p style="text-align: center;">solid brick & clay fill material</p>

Project ▶ 61-65 Charlotte street	Project Ref ▶ 4610
Element ▶ Site investigatory works	Page No ▶ 6
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Made By ▶ CAR	

