

1906 ROUNDHOUSE CAMPUS

PLANNING CONDITIONS DISCHARGE REPORT
CONDITION 17 (MECHANICAL VENTILATION)

APPLICATION REF: 2016/5760/P

September 2020

**REED
WATTS**

INTRODUCTION

Application Details

This report includes information for the discharge of planning condition 17 relating to application **2016/5760/P**.

Condition Details

The condition detailed in the Decision notice dated 16 August 2018, is as follows:
Prior to commencement of development (excluding demolition and site preparation works), full details of the mechanical ventilation system including air inlet locations shall be submitted to and approved by the local planning authority in writing. Air inlet locations should be located away from busy roads point sources of emission and as close to roof level as possible, to protect internal air quality. The development shall thereafter be constructed and maintained in accordance with the approved details.

Reason: To protect the amenity of occupiers of the building in accordance with policies A 1 and A4 of the London Borough of Camden Local Plan 2017.

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Our ref: 500057 HW/hs

23rd September 2020

Dear Emily

Ventilation Strategy and Principles for Roundhouse Campus, Camden, Pre-Commencement Conditions Submission.

This letter describes the ventilation strategy and principles for the new Roundhouse Campus, Camden. The diverse ventilation strategies have been specifically designed to suit the building fabric, internal use of the spaces and BREEAM requirements. The range of ventilation methods specified include natural ventilation, forced mixed air ventilation, displacement ventilation, cross-flow ventilation and local extract ventilation.

Please find enclosed the following documents that support this letter:

- CAMRHO-IWD-XX-00-DR-M-4200 Rev S4P06 Prop Htg & Vent GF
- CAMRHO-IWD-XX-01-DR-M-4201 Rev S4P06 Prop Htg & Vent FF
- CAMRHO-IWD-XX-02-DR-M-4202 Rev S4P06 Prop Htg & Vent SF
- CAMRHO-IWD-XX-XX-DR-M-4002 Rev S4P01 Ventilation Schematic sht 1 of 2
- CAMRHO-IWD-XX-XX-DR-M-4003 Rev S4P01 Ventilation Schematic sht 2 of 2
- 500057 _ Building Services Spec REV02 ISSUE, Section 1.2.8 Mechanical Ventilation

Most areas throughout the building are ventilated via mechanically fan assisted heat recovery systems. Each space shall have its own supply and extract air terminations, which shall extract foul air and supply tempered fresh air into the space simultaneously.

Air terminations have been designed and located to encourage cross-flow ventilation and avoid short circuiting. This is extremely important within the open-planned spaces.

Different areas of the building are served from independent air-handling units and therefore suit the flexibility of the occupation activity within the building.



There are independent extract ventilation systems within the WC, Showers, Changing and Catering areas to assist with the extraction of foul air and highly concentrated CO2 air during operating hours.

Where rooms have high ceilings, displacement methods have been exploited to ensure full air changeovers take place.

Openable windows have been positioned to limit the amount of untampered air and external contaminants that enter the building. Openable windows are all south facing, which shall limit external contaminants entering the building from the north side, Chalk Farm Road.

The ventilation strategy for the Roundhouse Campus critically meets three key elements: efficiency, output performance and being user-friendly. The strategy ensures that the occupants can use the building for their activities, while simultaneously saving energy via sustainable design measures. The ventilation strategy has provision for ultimate and easy control for the client, which will result in excellent indoor air quality at all times.

Yours sincerely

Harry White
Building Services Engineer
Ingleton Wood LLP
Harry.white@ingletonwood.co.uk

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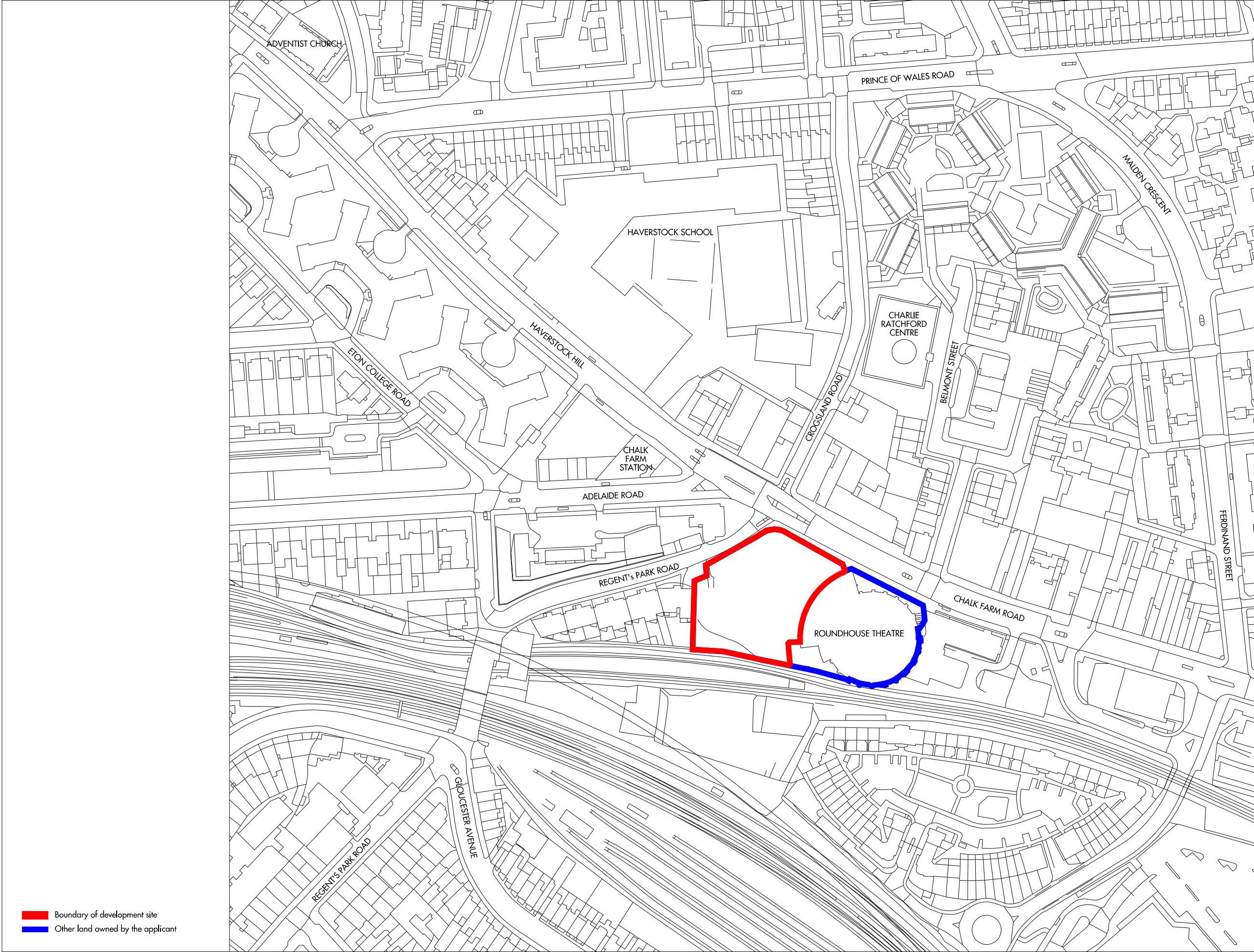
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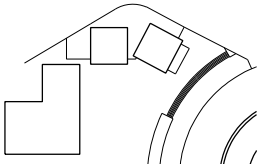
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Boundary of development site
Other land owned by the applicant

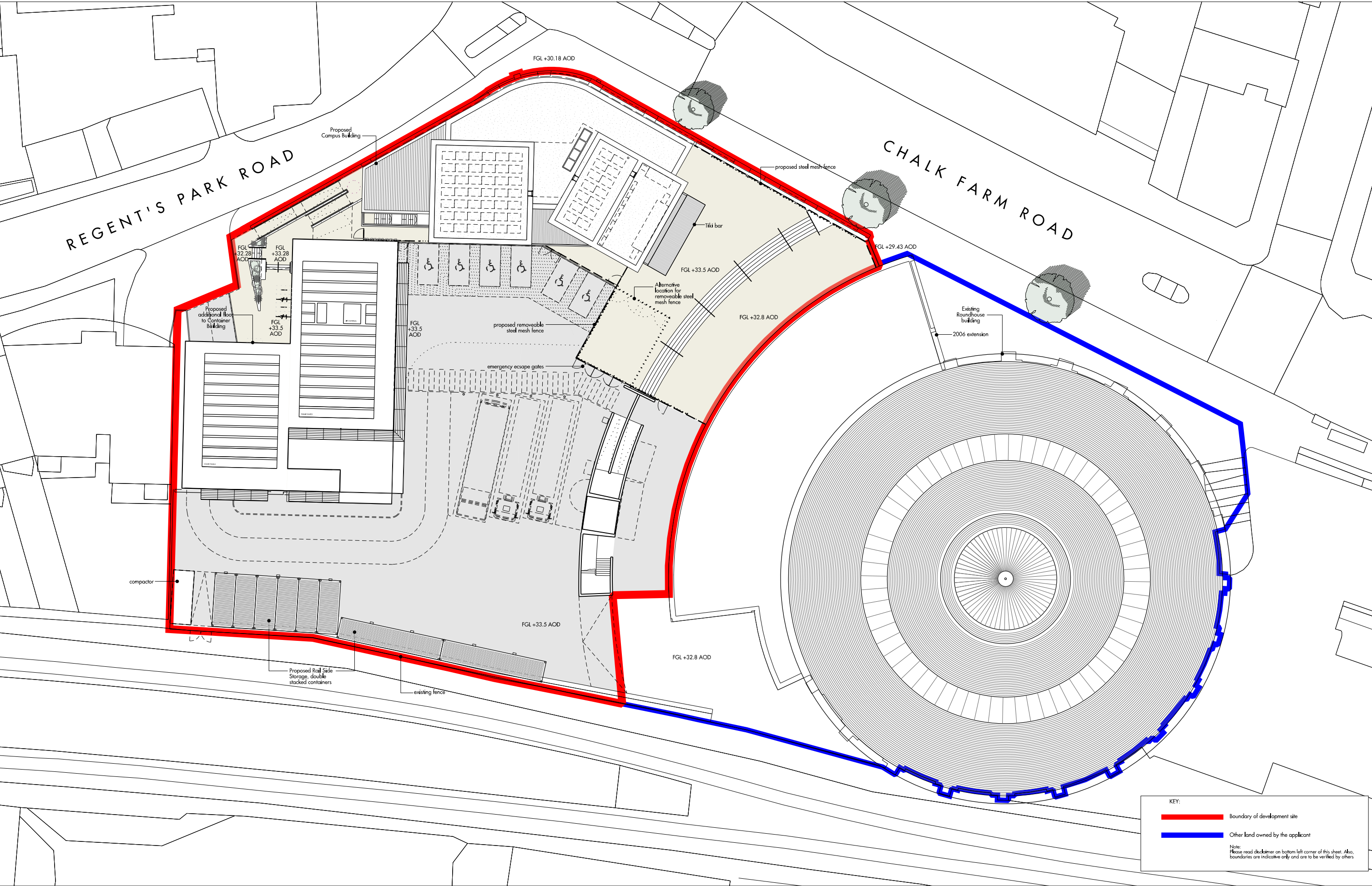
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	P1	28.07.2016	Planning Application	KF				
	P2	21.09.2016	Planning Application	KF				
	P3	09.01.2017	Planning Application	KF				
<small>Do not scale from this drawing. Use figured dimensions only. Figured dimensions are in millimetres. All levels are in metres. All dimensions and levels shall be verified on site before proceeding with works. Detailed site survey to be carried out to verify positions and level relationships with site features and ordnance survey. The architect must be notified of any discrepancy. Where building components are described in the specification as contractor designed, "construction" information relating to those components on this drawing represents design intent only. Allies & Morrison is not responsible for any errors caused by the transmission, translation, software or computer systems. Allies & Morrison is not responsible for nor shall be liable for the consequences of any use made of the drawings or models other than that for which they were produced by Allies & Morrison for the Client.</small>								



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ROUNDHOUSE, CHALK FARM
SITE LOCATION PLAN
PLANNING
1056_07_001

SCALE 1:1000 @A1 1:2000@A3

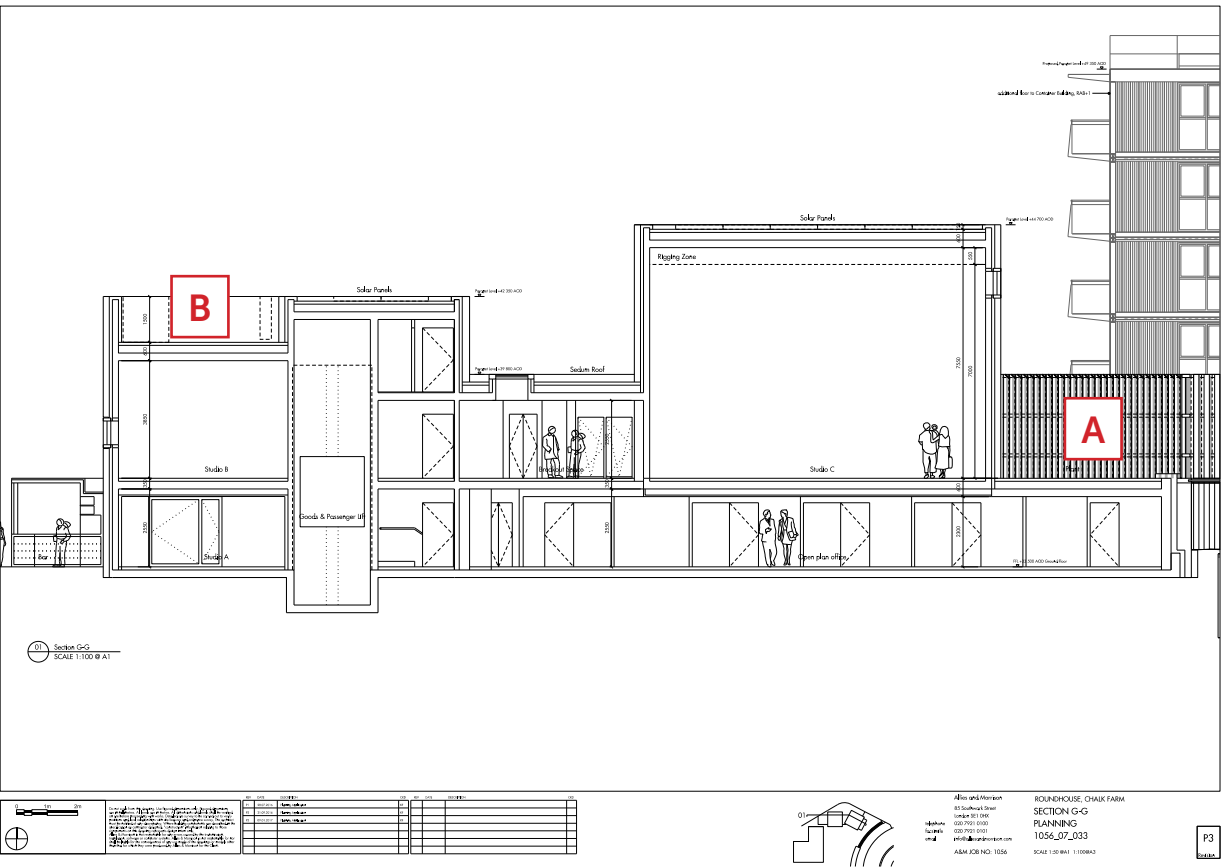
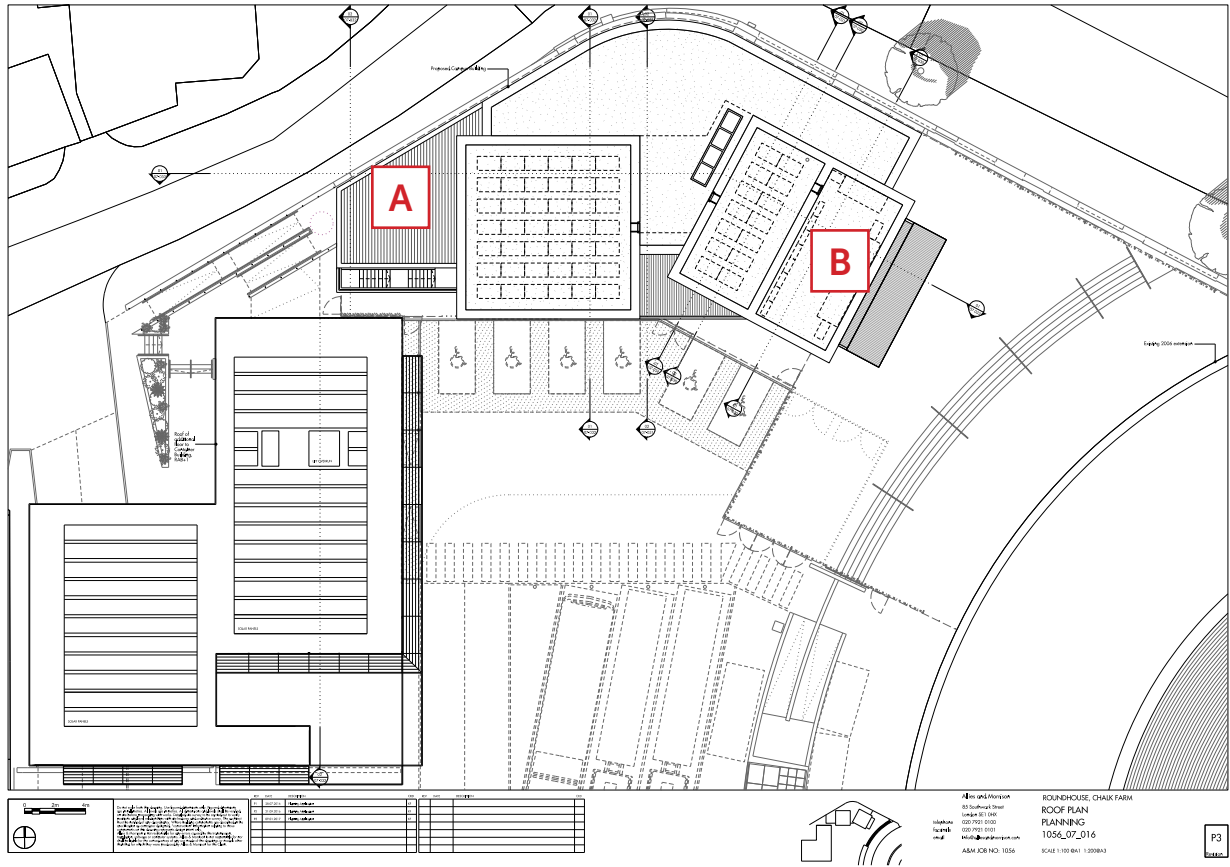


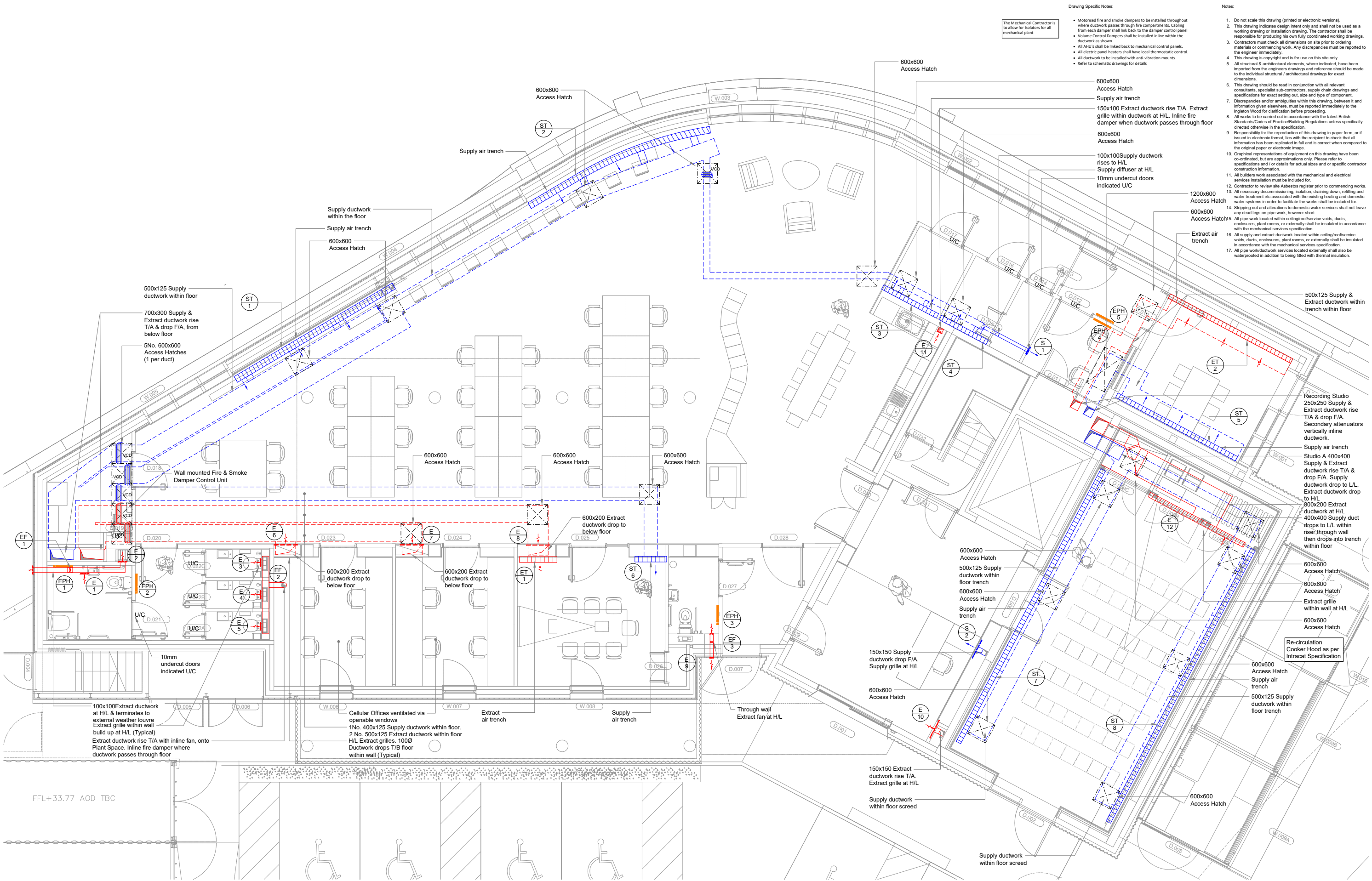
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P2	21.09.2016	Planning Application	K1				
P3	09.01.2017	Planning Application	K1				
P4	28.04.2017	Planning Application	K1				

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ROUNDHOUSE, CHALK FARM
SITE ROOF PLAN - PROPOSED
PLANNING
1056_07_003
SCALE 1:200 @A1 1:400@A3

PLANT LOCATION





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- 16. All supply and extract ductwork located within ceiling/void/service voids, ducts, enclosures, plant rooms, or externally shall be insulated in accordance with the mechanical services specification.
- 17. All pipe work/ductwork services located externally shall also be waterproofed in addition to being fitted with thermal insulation.

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P05	Stage Approval	28.02.20	HW	TS
P04	Revised to suit latest frozen Architectural layout	23.01.20	HW	TS
P03	Revised throughout issued for Review & Comment	13.12.19	HW	TS
P02	DRAFT ISSUE	11.10.19	HW	TS
P01	DRAFT ISSUE	10.10.19	HW	TS
Rev	Description	Date	Chk	Appr
Project No: 500057		Scale @ A1: 1:50	Drawn By: KS	

Project:
Camden Roundhouse
Chalk Farm Road
Camden
London, NW1 8EH

Client:
Roundhouse

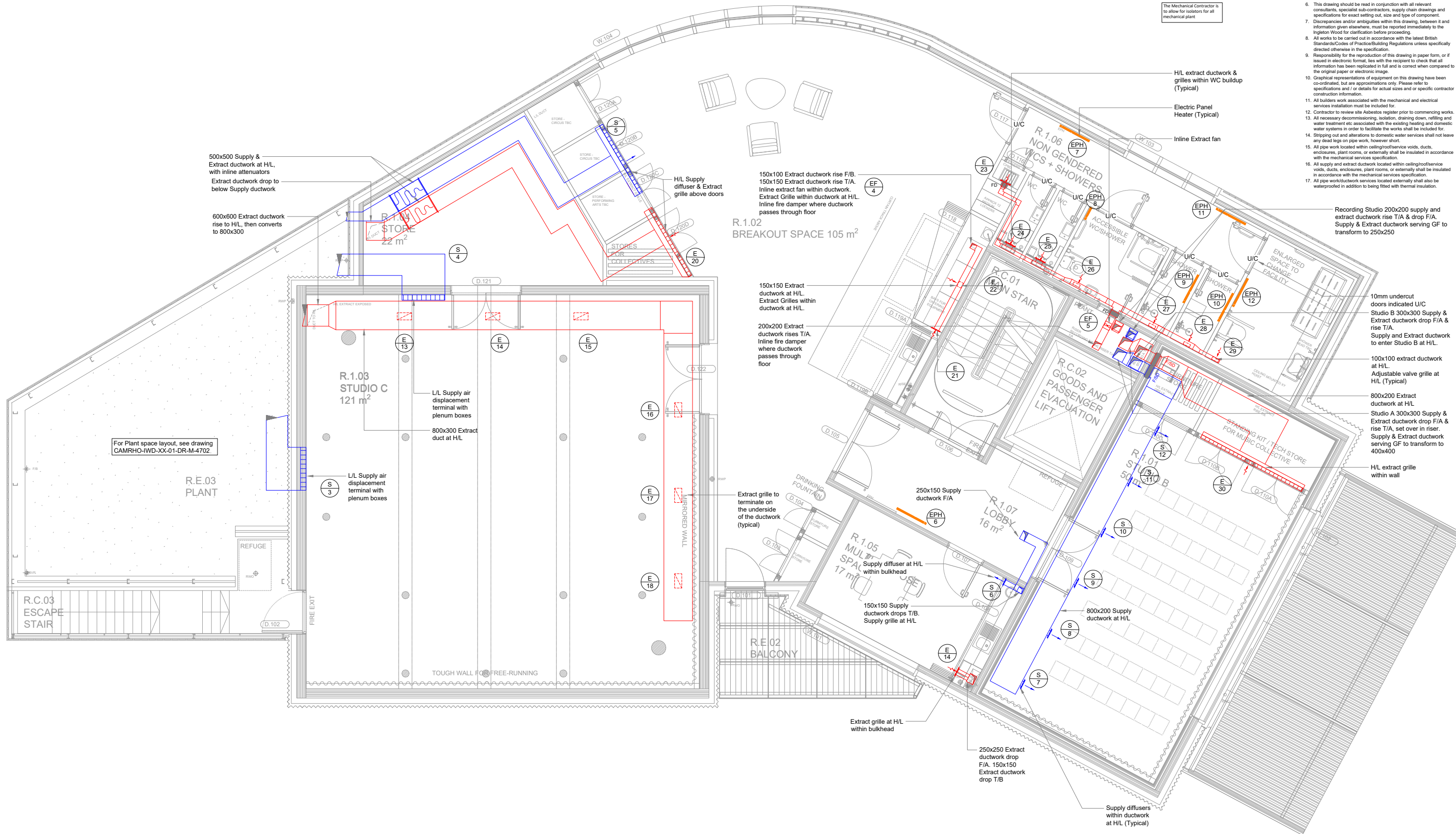
Title:
Proposed Heating & Ventilation
Ground Floor

Drawing Number:
CAMRHO-IWD-XX-00-DR-M-4200

Status: S4 Purpose of Issue: Stage Approval Revision: P06

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Drawing Specific Notes:

- Motorised fire and smoke dampers to be installed throughout where ductwork passes through fire compartments. Cabling from each damper shall link back to the damper control panel
- Volume Control dampers shall be installed inline within the ductwork as shown
- All AHU's shall be linked back to mechanical control panels.
- All electric panel heaters shall have local thermostatic control.
- All ductwork to be installed with anti-vibration mounts.
- Refer to schematic drawings for details

The Mechanical Contractor is to allow for isolators for all mechanical plant

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P02	DRAFT ISSUE	11.10.19	HW	TS
P01	DRAFT ISSUE	10.10.19	HW	TS
Rev	Description	Date	Chk	Apr
Project No: 500057		Scale @ A1: 1:50		Drawn By: KS

Project:
Camden Roundhouse
Chalk Farm Road
Camden
London, NW1 8EH
Client:
Roundhouse

Title:	Proposed Heating & Ventilation First Floor
Drawing Number:	CAMRHO-IWD-XX-01-DR-M-4201
Status:	S4
Purpose of Issue:	Stage Approval
Revision:	P06

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17. All pipe work/ductwork services located externally shall also be waterproofed in addition to being fitted with thermal insulation.

Drawing Specific Notes:

- Motorised fire and smoke dampers to be installed throughout where ductwork passes through fire compartments. Cabling from each damper shall link back to the damper control panel in the Feeder Pillar.
- Volume Control Dampers shall be installed inline within the ductwork and plenums to each grille.
- All AHU's shall be linked back to mechanical control panels.
- All electric panel heaters shall have local thermostatic control.
- All ductwork to be installed with anti-vibration mounts.
- All plant & ductwork to be mounted on anti-vibration mounts as per the specification.
- All external ductwork shall be internally lined to meet attenuation requirements as per the specification.
- All Plant, ductwork, pipework & fittings to be weather proofed as per the specification.

The Mechanical Contractor is to allow for isolators for all mechanical plant

P03	Drawing revised as indicated	29.03.20	HW	TS
P02	Stage Approval Issue	28.02.20	HW	TS
P01	Review & Comment - Frozen Architects plan added	23/01/20	HW	TS
Rev	Description	Date	Chk	Apr
Project No:	500067	Scale @ A1:	1:20	Drawn By: KS



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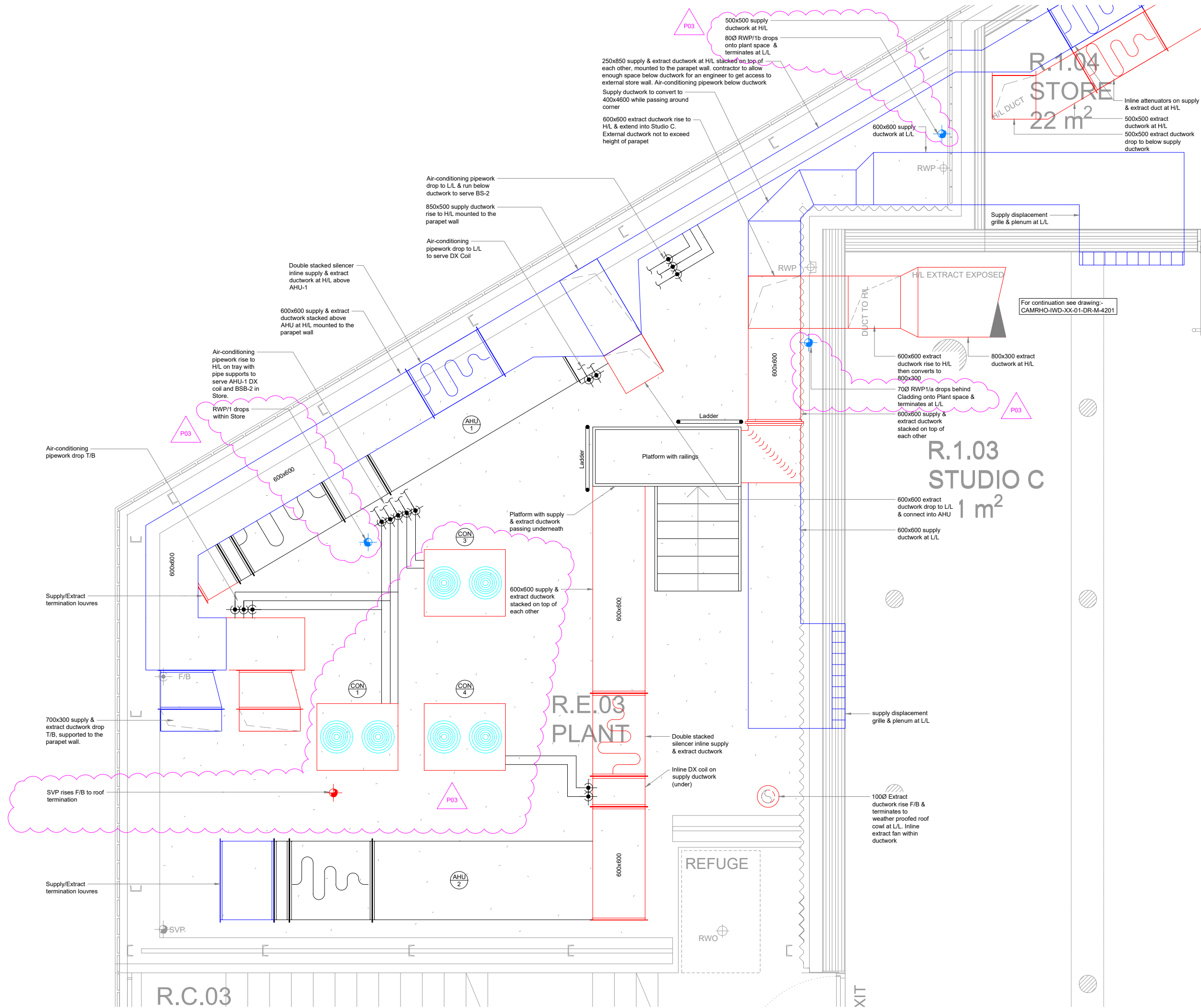
Project:
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Chalk Farm Road
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London, NW1 8EH

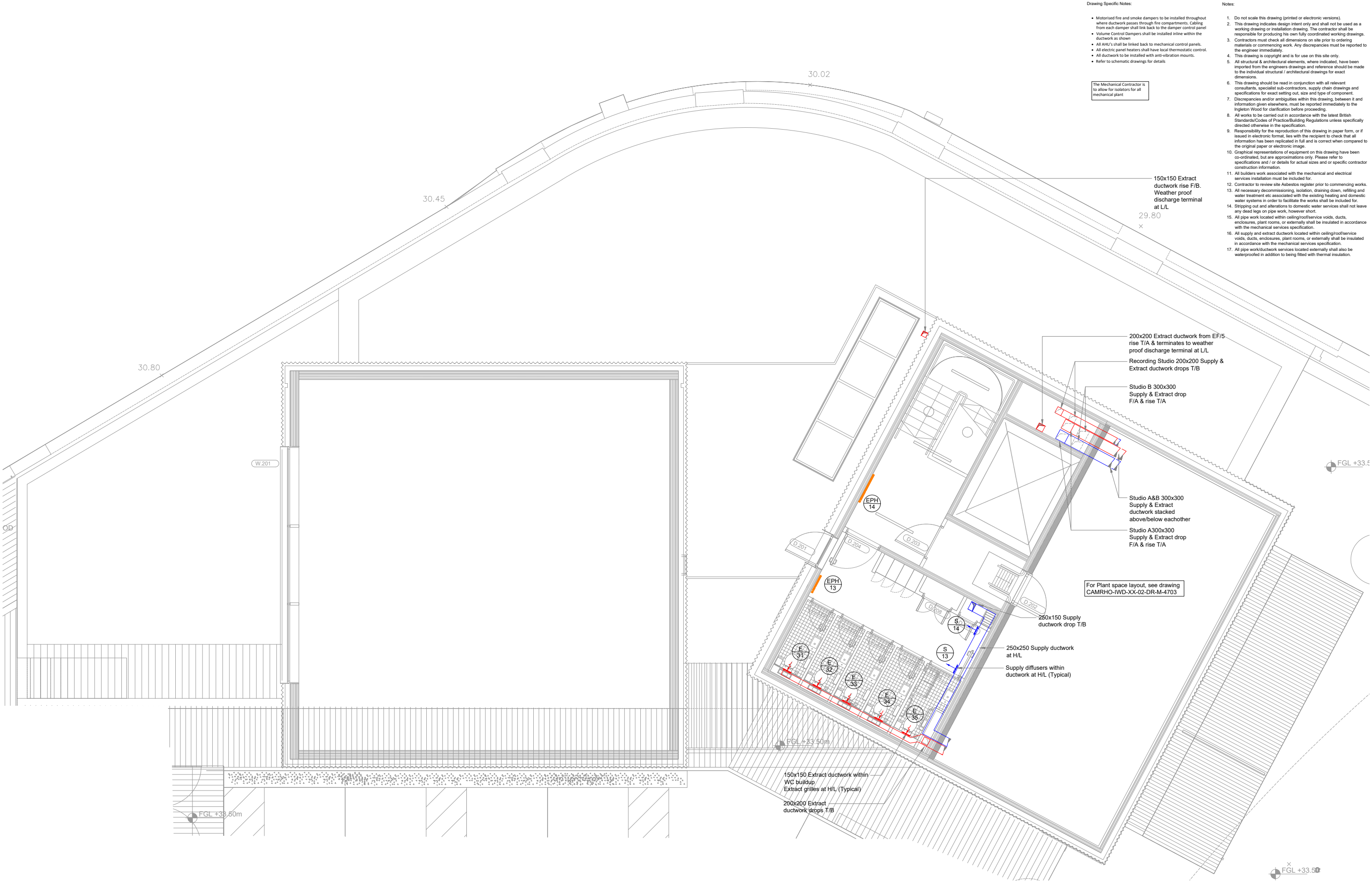
Client:
Roundhouse

Title:
Proposed Plant Space
First Floor

Drawing Number:
CAMRHO-IWD-XX-01-DR-M-4702

Status:	Purpose of Issue:	Revision:
S2	Information	P03





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Rev	Description	Date	Chk	Apr	
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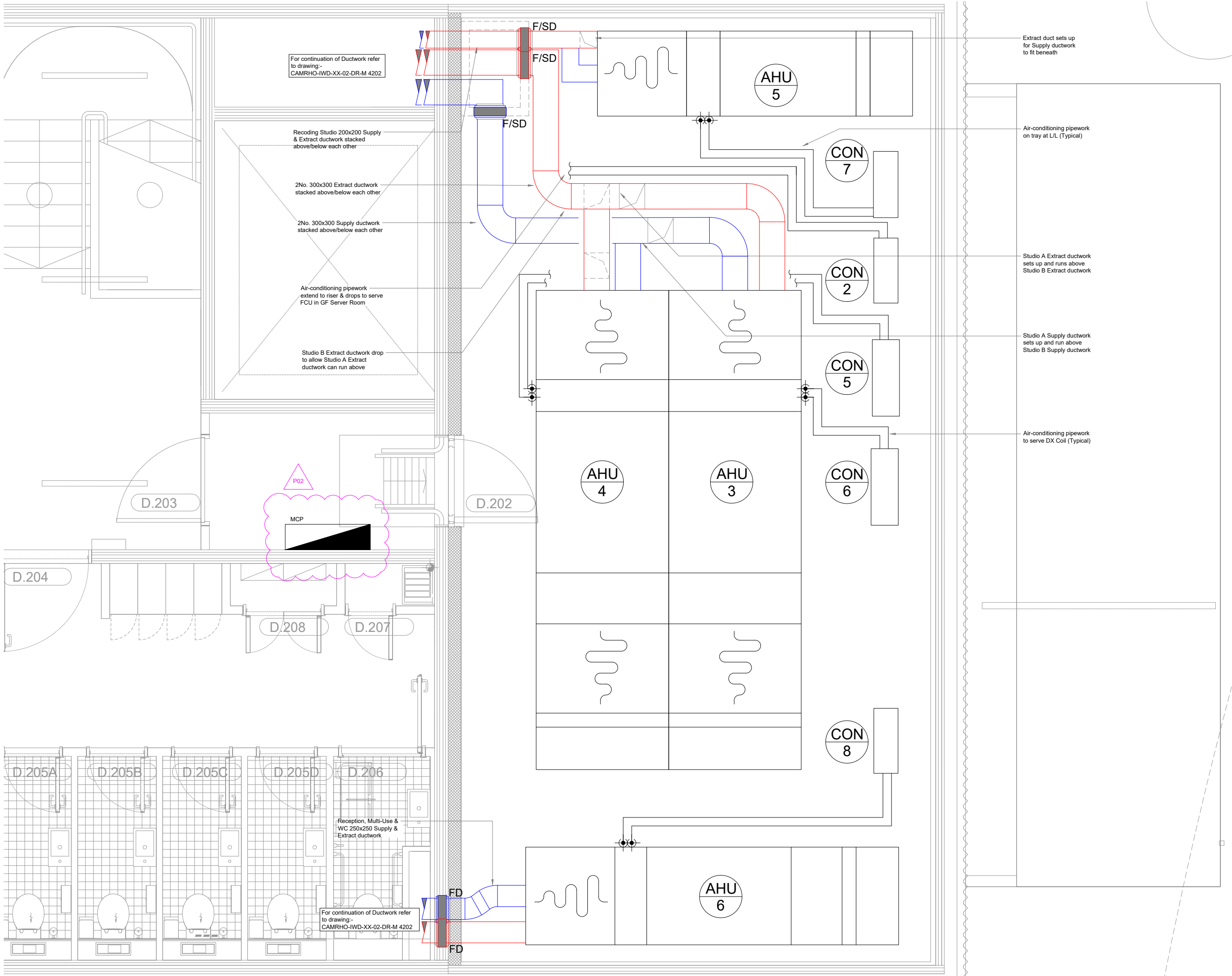
Title:
Proposed Heating & Ventilation
Second Floor

Drawing Number:
CAMRHO-IWD-XX-02-DR-M-4202

Status:	Purpose of Issue:	Revision:
S4	Stage Approval	P06

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14. Stripping out and alterations to domestic water services shall not leave any dead legs on pipe work, however short.
15. All pipe work located within ceiling/roof/service voids, ducts, enclosures, plant rooms, or externally shall be insulated in accordance with the mechanical services specification.
16. All supply and extract ductwork located within ceiling/roof/service voids, ducts, enclosures, plant rooms, or externally shall be insulated in accordance with the mechanical services specification.
17. All pipe work/ductwork services located externally shall also be waterproofed in addition to being fitted with thermal insulation.

Drawing Specific Notes:

- Motorised fire and smoke dampers to be installed throughout where ductwork passes through fire compartments. Cabling from each damper shall link back to the damper control panel in the Feeder Pillar.
- Volume Control Dampers shall be installed inline within the ductwork and plenums to each grille.
- All AHU's shall be linked back to mechanical control panels.
- All rooms shall have CO2 sensors which will link back to the control panel, regulating the AHU fan speeds.
- All electric panel heaters shall have local thermostatic control.
- All ductwork to be installed with anti-vibration mounts.

The Mechanical Contractor is to allow for isolators for all mechanical plant

P02	Drawing revised as indicated	29.03.20	HW	TS
P01	Stage Approval	28.02.20	HW	TS
Rev	Description	Date	Chk	Apr
Project No:	500067	Scale @ A1:	1:20	Drawn By:
				KS



Vision, form and function

Project:	Camden Roundhouse Chalk Farm Road Camden London, NW1 8EH
Client:	Roundhouse
Title:	Proposed Plant Space Second Floor
Drawing Number:	CAMRHO-IWD-XX-02-DR-M-4703
Status:	S4
Purpose of Issue:	Stage Approval
Revision:	P02

Notes:

1. Do not scale this drawing (printed or electronic versions).
2. This drawing indicates design intent only and shall not be used as a working drawing or installation drawing. The contractor shall be responsible for producing his own fully coordinated working drawings.
3. Contractors must check all dimensions on site prior to ordering materials or commencing work. Any discrepancies must be reported to the engineer immediately.
4. This drawing is copyright and is for use on this site only.
5. All structural & architectural elements, where indicated, have been imported from the engineers drawings and reference should be made to the individual structural / architectural drawings for exact dimensions.
6. This drawing should be read in conjunction with all relevant consultants, specialist sub-contractors, supply chain drawings and specifications for exact setting out, size and type of component.
7. Discrepancies and/or ambiguities within this drawing, between it and information given elsewhere, must be reported immediately to the Ingleton Wood for clarification before proceeding.
8. All works to be carried out in accordance with the latest British Standards/Codes of Practice/Building Regulations unless specifically directed otherwise in the specification.
9. Responsibility for the reproduction of this drawing in paper form, or if issued in electronic format, lies with the recipient to check that all information has been replicated in full and is correct when compared to the original paper or electronic image.
10. Graphical representations of equipment on this drawing have been co-ordinated, but are approximations only. Please refer to specifications and / or details for actual sizes and or specific contractor construction information.
11. All builders work associated with the mechanical and electrical services installation must be included for.
12. Contractor to review site Asbestos register prior to commencing works.
13. All necessary decommissioning, isolation, draining down, refilling and water treatment etc associated with the existing heating and domestic water systems in order to facilitate the works shall be included for.
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