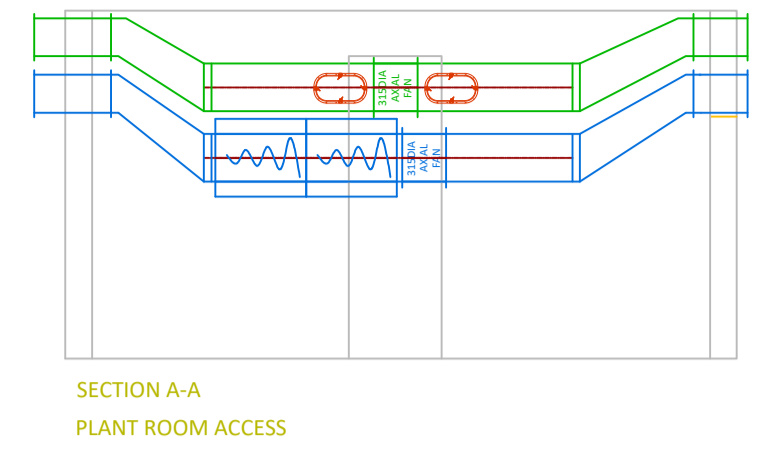
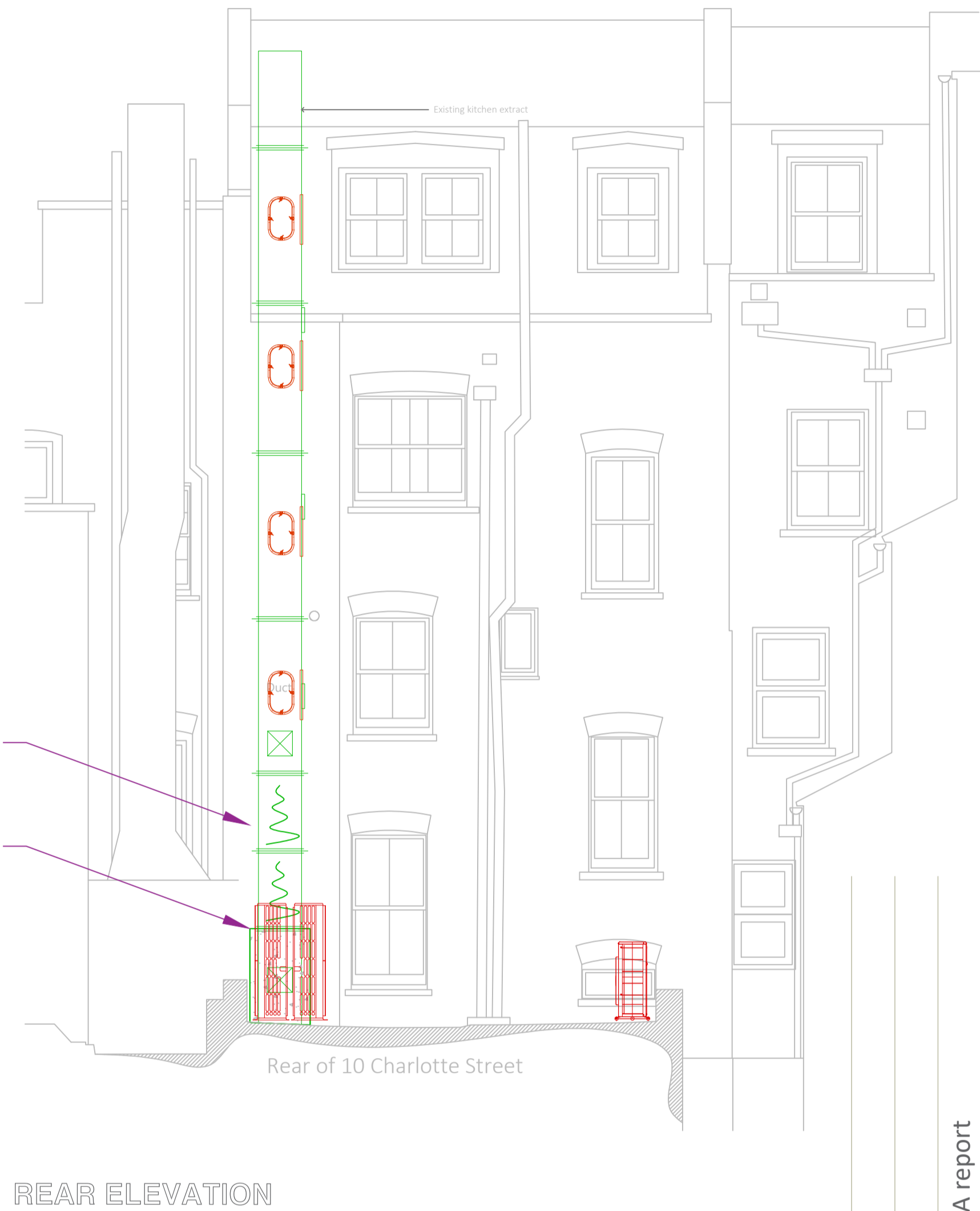
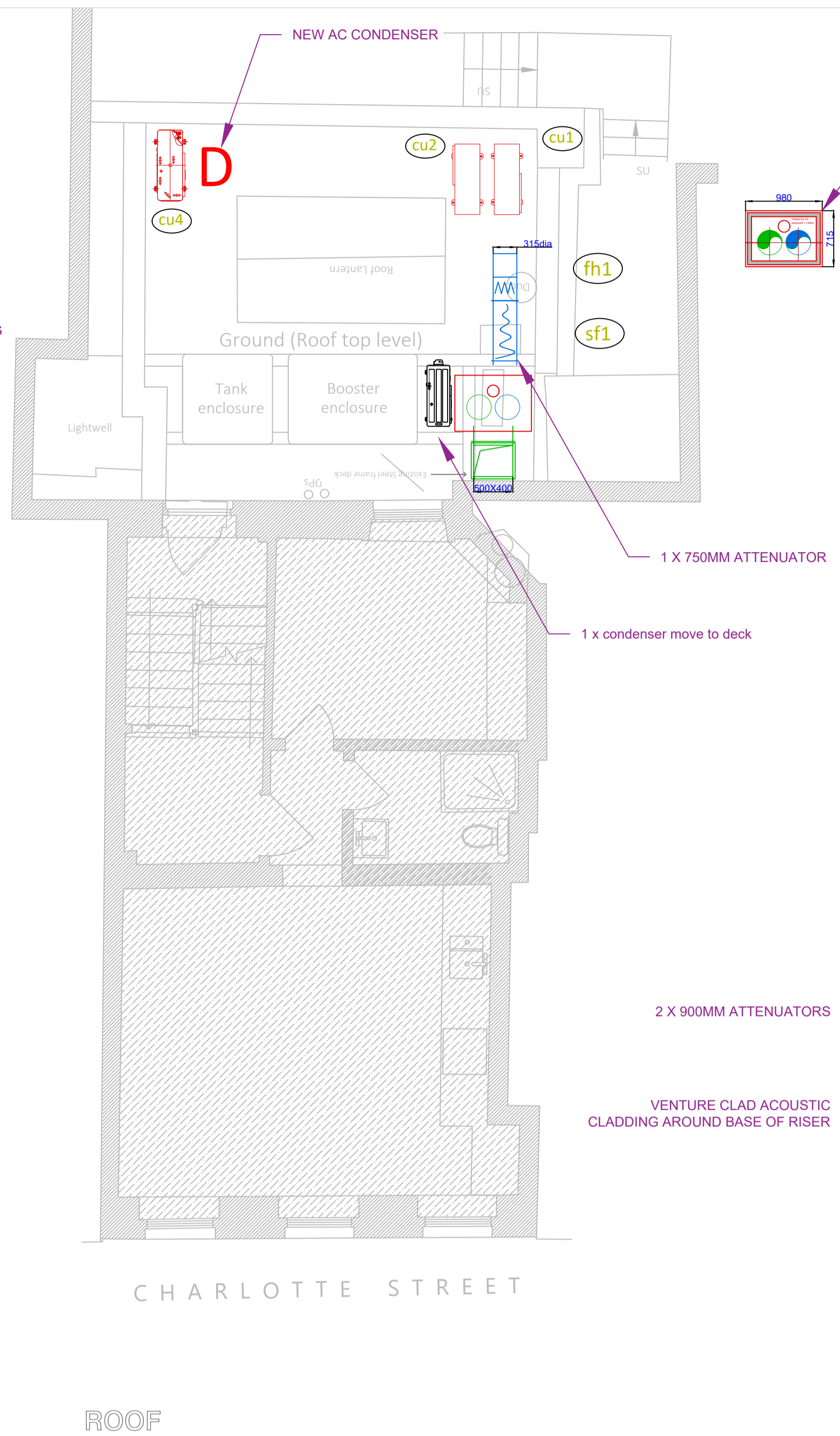
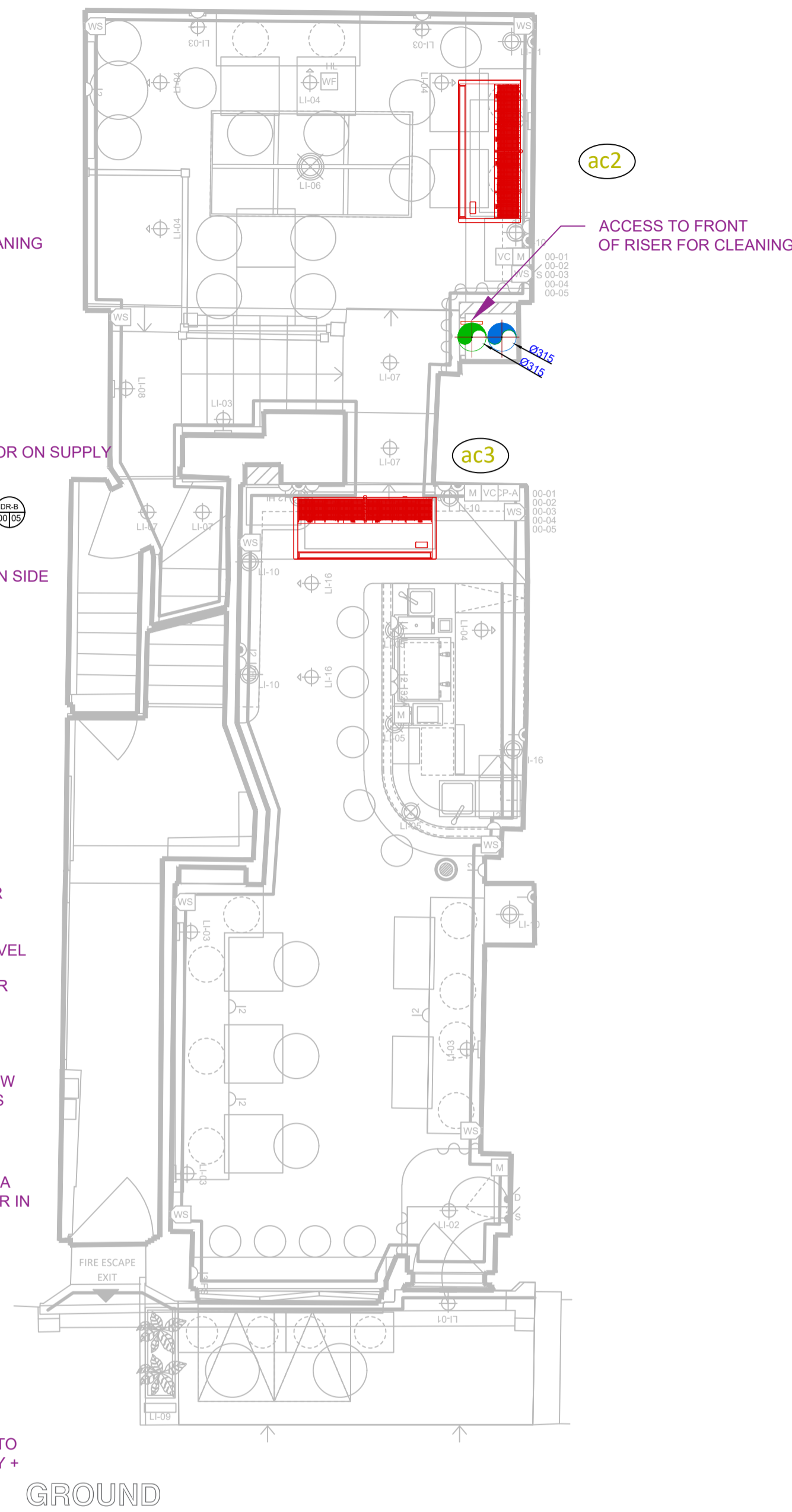
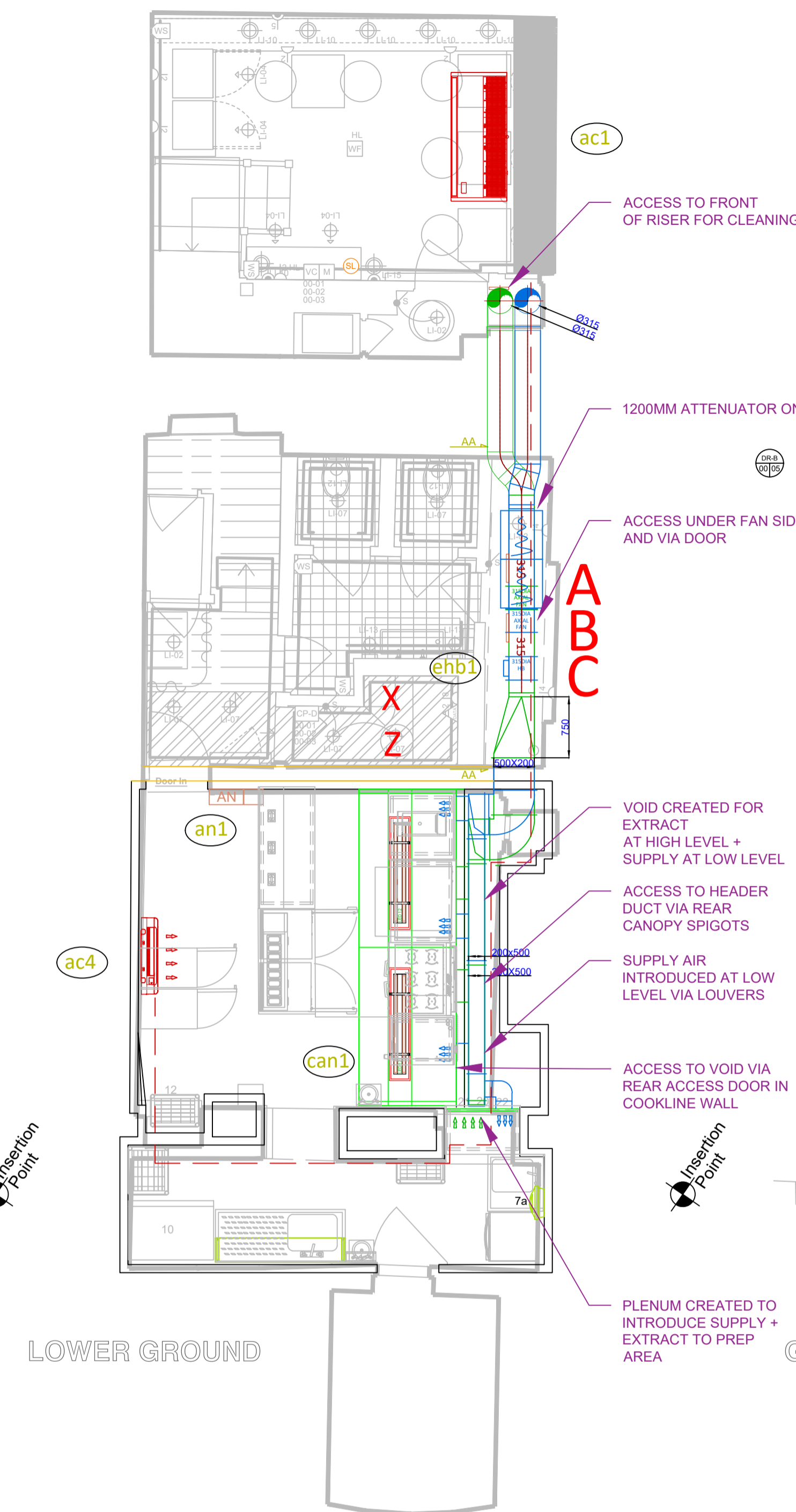


X = ASSUMED SPEED CONTROLLER LOCATION
 Z = ASSUMED DB LOCATION



Item	Cooking Equipment	Power	Plan Size	Area (m ²)	Flow Rate (m ³ /s)
2	Deep Fat Fryer, Electric	Electric	0.30	0.40	0.18
4	Induction Hob / Ceramic Slow Electric	Electric	0.40	0.76	0.64
5	Combi Oven Stand Mounted 6 gld, Electric	Electric	0.60	0.80	0.30

Specific Extract Flow Rate Calculation Sheet

Based on the THERMAL CONVECTION METHOD as recommended in HVCA Specification DW172:2018

Site: July - Charlotte Street
 Floor Level: basement
 Area: kitchen
 Canopy / Ceiling Ref: can1
 Canopy Type: 00 Overhead Wall Type (closed both ends)

For: July
 Job No.: 1059
 Client Org No.:
 Date: 20/01/2023
 Assessed By:

the fellerman partnership

REF: F-01
 Issue Date: 10/05/2018
 Revision: 04
 Page: Page 1 of 1

Theoretical Flow Rate: 0.36 m³/s
 X Factor for Canopy / Ceiling Type: 1.15
 Capture Jet Efficiency Factor: 0.42
 Specific Extract Flow Rate: 0.42 m³/s
 Make-up Air Ratio: 85%
 Make-up Air Flow Rate: 0.35 m³/s

revision	date	description
B-30/01/2024	30/01/2023	

client	site	total hvac	total TFP panel
July	Charlotte Street	29	0

Item	description	model	location	cable run	cable type	size	weight	noise	power supply	fed from panel	L1	L2	L3	power	duty	control requirement	filter + pump size	comment
EF1	kitchen fan	31JM/16/2/5/24	kitchen	Z-A X-A	9C+E 2.5mm SWA LSF 2 x 2PAIR SCR 18AWG	442 x 315 x 290	24	44	415/3/50	n	1.4	1.4	1.4	0.41	0.4 @ 400			POWER TO UNIT BY MAIN CONTRACTOR
SF1	supply fan	31JM/16/2/5/24	kitchen	Z-B X-B	9C+E 2.5mm SWA LSF 2 x 2PAIR SCR 18AWG	442 x 315 x 290	24	44	415/3/50	n	1.4	1.4	1.4	0.41	0.4 @ 400			POWER TO UNIT BY MAIN CONTRACTOR
FH1	filter housing	BESPOKE	roof	-	-	350 x 600 x 300	-	-	-	n	-	-	-	-	0.4M3/S @ 2M/S			
EHB1	electric heater battery	15KW	roof	Z-C X-C	4C+E 4mm SWA LSF 2 x 2PAIR SCR 18AWG	350 x 500 x 600	20	-	230/1/50	n	26	-	-	6kw	-			POWER TO UNIT BY MAIN CONTRACTOR
AC1	existing ceiling AC	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
CU1	existing ceiling - condenser	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
AC2	existing ceiling AC	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
CU2	existing ceiling - condenser	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
AC3	existing ceiling AC	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
CU3	existing ceiling - condenser	-	restaurant	-	-	-	-	-	-	n	-	-	-	-	-			EXISTING
AC4	indoor wall mount	RAS-R10R2KVG-E	prep/pot wash	-	-	288 x 770 x 225	9	20	-	CU4	-	-	-	-	-			EXISTING
CU4	outdoor wall mount	RAS-10E2AVG-E	roof	Z-D	4C+E 2.5mm SWA LSF	530 x 650 x 240	22	49	230/1/50	n	-	-	10	-	-			POWER TIP CANOPY LIGHTS BY MAIN CONTRACTOR
CAN1	canopy	3800 x 1200 x 300/200	kitchen	lights	-	3900 x 1200 x 300/200	250	-	230/1/50	n	-	-	-	-	-			POWER TIP CANOPY LIGHTS BY MAIN CONTRACTOR
AN1	single tank ansul R-102	-	-	-	FA connection	-	-	-	-	n	-	-	-	-	-			-
PAN1	control panel	-	-	-	-	-	-	-	415/3/50	n	-	-	-	-	-			-
N1	fire alarm connection from panel	-	-	-	-	-	-	-	-	n	-	-	-	-	-			adaptable box above hvac panel

NOTES -
 KITCHEN LAYOUT UPDATED TO SUIT VENTILATION TO PROVIDE MAXIMUM SEFR OF 0.4M3/S
 EQUIPMENT AS PER SEFR:
 - SINGLE FRYER
 - SMALL COMBINATION OVEN
 - INDUCTION HOB
 NOTE ELECTRIC GRIDDLE OMITTED FROM SCHEME

Client	JULY
Project	CHARLOTTE STREET
Title	VENTILATION LAYOUT - PLAN + ELEVATIONS
Contract No.	1059
Drawing No.	TFP-1059-101
Scale	1:50:A1 1:100:A3
Date	17/12/2023

05/03/2024	updated ES
20/02/2024	updated AC + riser
01/02/2024	updated attenuation post ACA report
26/1/2024	updated catering layout + sf1
22/1/2024	updated sf1 + attenuation + CU4+CU5

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