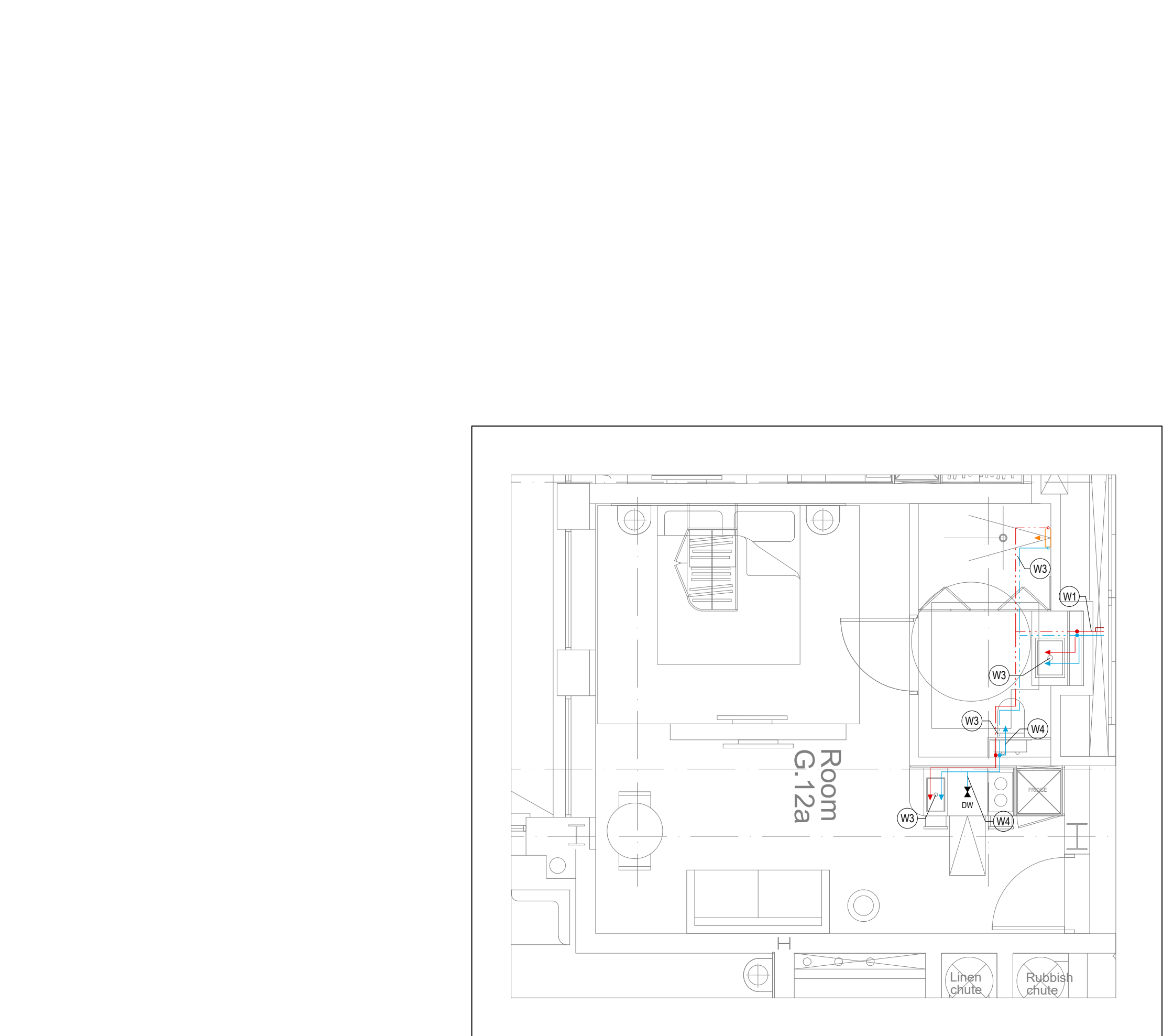
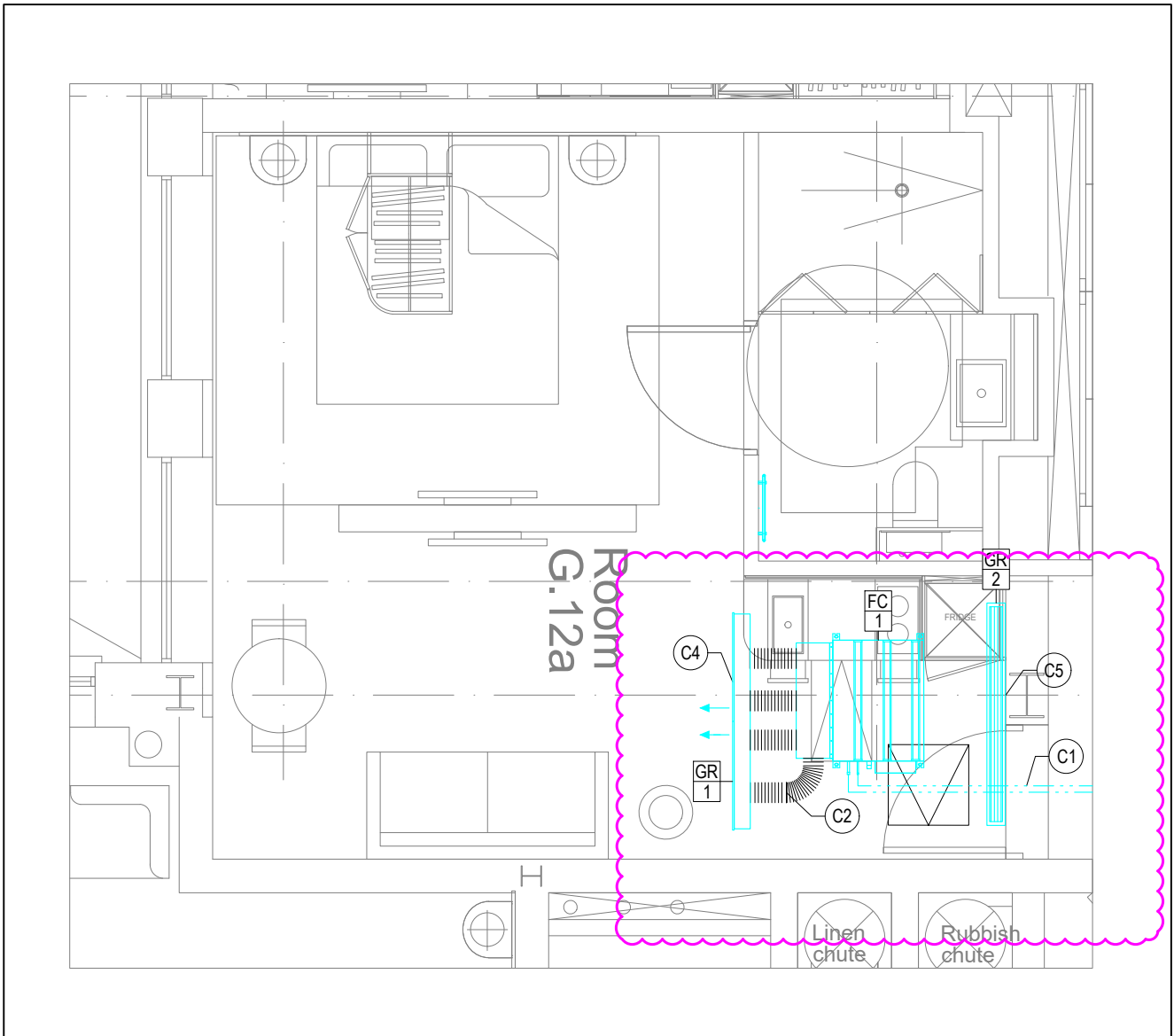
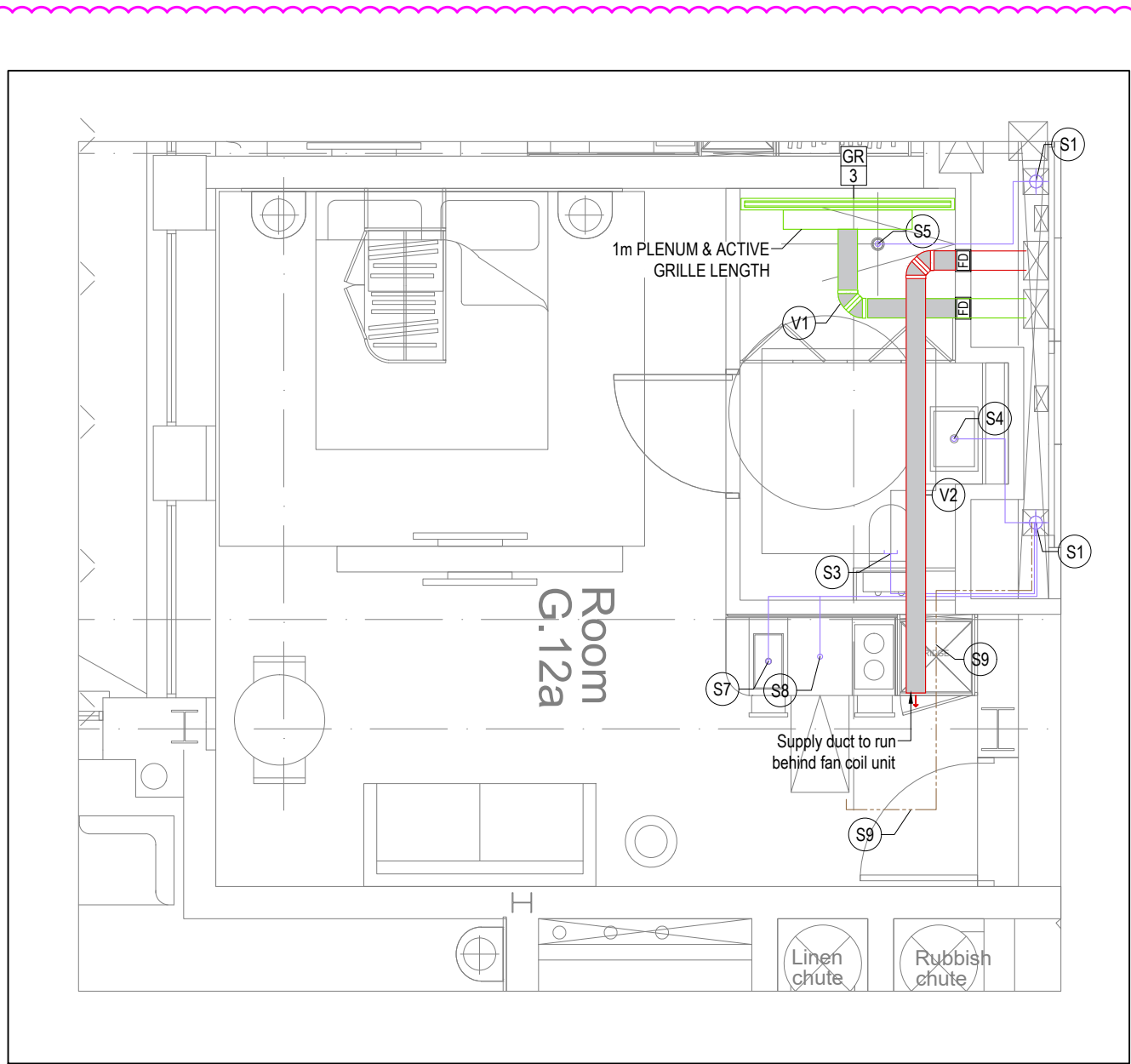




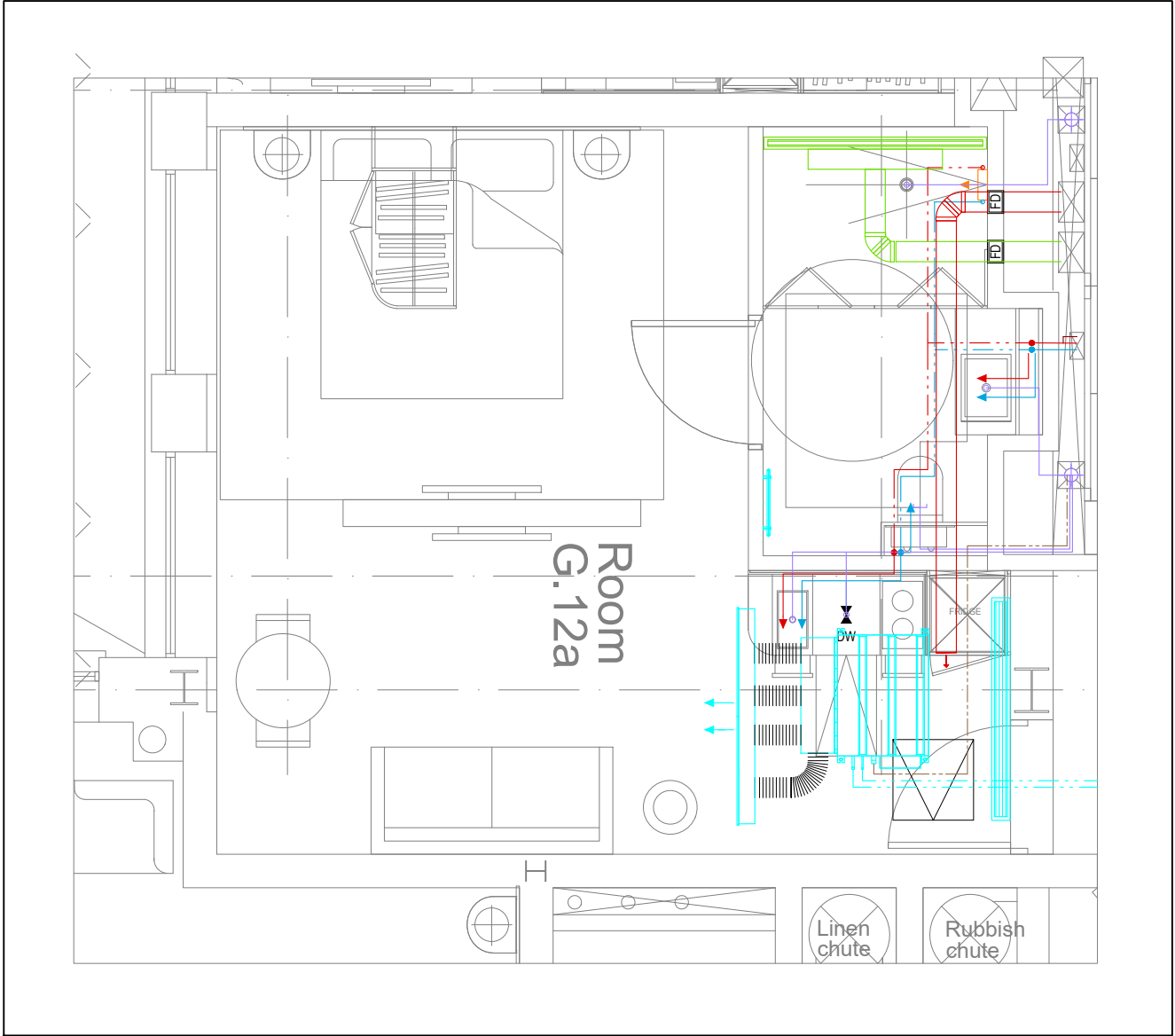
HOT & COLD WATER LAYOUT



HEATING & COOLING LAYOUT



SOILS & VENTILATION LAYOUT



COORDINATED SERVICES LAYOUT

GRILLE SCHEDULE				
MANUFACTURER / RANGE: BROCKEIR FLOWLINE				
GRILLE REF:	ROOM	GRILLE LENGTH	GRILLE TYPE	DUTY
GR1	LIVING/DINING/KITCHEN	1600	2F	SUPPLY
GR2	LIVING/DINING/KITCHEN	1600	2F	EXTRACT
GR3	BATHROOM	1600	1F	EXTRACT

GENERAL SERVICES NOTES

- Electrical services shown for coordination purposes only. Refer to Electrical drawings for Electrical services information.
- Before commencing work on site, please read Design Risk Management Information.
- All manufacturer's instructions to be reviewed prior to installation.
- This drawing is to be read in conjunction with all schematics, details and specification documents.
- Dimensioned setting out details to be confirmed by architect.
- All discrepancies are to be queried with WDA before works commence.

GENERAL WATER NOTES

- The incoming water stopcock is to be at a level of 1200mm from FFL.
- This drawing must be read in conjunction with approved sanitaryware schedule by others.
- Positions of sprinkler heads (if applicable) are indicative and to be verified by specialist subcontractor.
- A thermostatic mixing valve set at a maximum of 48°C must be fitted to all bath hot water outlets, as per Building Regulations Part G (april 2010), Section 3.65-3.68.

GENERAL HEATING NOTES

- Heating pipe work high points are to be vented with automatic air vents (AAV's), or shall be manually vented where not possible.
- TRV shall be provided with pre settable option to limit return temperatures.

GENERAL SOILS NOTES

- Where waste pipe passes behind cooker, it shall be suitably protected against heat distortion by being lagged in foil backed 25mm thick fibreglass or to be run in copper.
- 400 basin waste and 400 bath or shower waste can be combined to run in 500 float to collar boss on SVP/ISS.
- 400 sink waste and 400 standpipe waste can be combined to run in 500 float to collar boss on SVP/ISS.
- Where a waste run exceeds lengths shown in BS EN 12056-2 (table 6) a HepVo trap is to be fitted to the waste run.
- All high level drainage/RWP offsets shall be acoustically treated as per WDA details.

GENERAL VENTILATION NOTES

- Where non-fire rated ductwork passes through a fire compartment element (such as protected hallway) the duct is to be fitted with a fire collar with a rating to match the wall being penetrated. The fire collar must be installed in line with manufacturer's requirements.
- Doors within dwellings need to be cut short by 10mm to allow air to pass under the door and to satisfy Part F1 of the Building Regulations.
- Where flexible duct work must be used, it must be installed at 90% of its maximum length, be no longer than 300mm in each instance and follow a slow radius bend.
- Where ductwork passes through an unheated space it shall be insulated.
- Where ducts need to droprise within the ceiling void, this must be done in a manner that does not form low points where condense can collect.
- Duct work shall be insulated wherever there is a risk of condensation forming.
- Where duct work is insulated, it shall be with 25mm of 0.04w/mk or equivalent.
- Ventilation unit to be installed with Anti-vibration mounts.
- Where flexible duct work is used it is to be tough PVC coated glass cloth fabric (or vinyl) supported by encapsulated high tensile steel wire helix. Traditional domestic PVC flexible duct work is acceptable.
- It is assumed that no acoustic attenuation is required. To be confirmed by acoustic consultant.

WATER NOTES

W1. Incoming hot & cold water pipework within ceiling void/poit space. Secondary returns to tee into hot water before the pipework enters each hotel room. Refer to schematic for valve arrangement and sizing.

W2. 220 BCWS & HWS.

W3. 150 BCWS & HWS.

W4. 150 BCWS.

W5. 220 BCWS.

W6. 280 BCWS & HWS.

W7. 150 secondary HWS return.

W8. 150 Mixed water supply from TRV to shower head / bath outlet.

COOLING NOTES

C1. Incoming refrigerant F&R. Refer to schematic for sizing.

C2. FCU to connect to supply air plenum via max. 2m run of flexible acoustic duct where reasonable, with remainder in solid duct. Where passing through fire rated walls, ducts should be suitably fire stopped.

C3. Supply air grille mounted horizontally (within ceiling), with plenum.

C4. Supply air grille mounted vertically (within bulkhead face/wall), with plenum.

C5. Return air grille mounted horizontally (within ceiling).

C6. Return air grille mounted vertically (within bulkhead face/wall).

C7. Dummy grille to make up continuous slot diffuser.

C8. Boarding to stop at ceiling level to allow for a return air path to FCU. 0.07m² free area required. If passing through fire rated wall, fire dampers are to be used.

SOILS NOTES

S1. 1000 SVP with rodding access. Refer to drainage and BWH layouts for latest SVP positions.

S2. 1000 SS with rodding access. SS only required where shown on Soil schematic / Drainage and BWH Layout.

S3. 1000 soil pipe from pan to SVP/ISS.

S4. 320 basin waste with anti-siphon to drop in 400 to SVP/ISS.

S5. 400 shower waste to run to SVP/ISS.

S6. 400 bath waste to run to SVP/ISS.

S7. 400 sink waste to drop in 400 to run to SVP/ISS. To be fitted with capped connection if adjacent to Washing Machine/Dishwasher.

S8. 400 standpipe for Washing Machine/Dishwasher waste to run to SVP/ISS.

S9. 220 plastic condense from fan coil unit to fall to SVPs by gravity where possible. where not possible, pumps should be used. HEP20 trap to be located adjacent to access hatch in ceiling for FCU condense.

S10. SVP to be in cast iron/HDFE and wrapped acoustically in accordance with the acoustic engineers requirement.

VENTILATION NOTES

V1. 150x100 Extract duct.

V2. 150x100 Supply duct.

V3. 1250 diffuser.

V4. 100x100 Extract duct.

V5. 100x100 Supply duct.

LEGEND

---> Pipework at high level / within ceiling void or floor joist

---> Pipework at low level

---> Pipework at low level

---> Pipework beneath floor / within floor screed / hidden

Rectangular ductwork

Circular ductwork / SVP

Vertical Duct through level above

Vertical Duct through level below

Flexible circular ductwork

Intumescent Fire Collar fitted as ductwork crosses fire compartmentation

Supply & Extract diffuser

Kitchen manufactures re-circulating cooker hood

Thermostatic Shower / Bath Mixer

15mm Cold Isolation Valve for Dish Washer

Electric Towel Rail as per Architects details

Fan Coil Unit - Refer to specialist info for further details

Linear Diffuser

Fire and Smoke Damper

BACKGROUND PLAN AS PER: KDS ARCHITECTS

DRAWING NO.	REVISION	DATE RECEIVED
5670-KDS-TH-LG-DR-A-03-1999	C1	02.07.2020

C2 12.05.2021 FCU position updated, fire damper added. Ductwork updated.

C1 26.10.2020 Construction Issue	LWH	EJ
P1 06.10.2020 Preliminary Issue	LWH	EJ
Rev Date Description	Dwn	Chkd

Current purpose: CONSTRUCTION Scale: 1:50 Size: A1

Original Issue Date: 06.10.2020 Dwn: LWH Chkd: EJ

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MECHANICAL SERVICES LAYOUT

HOTEL ROOM TYPE A1

G.12a, F.13a

Plots:

Project:

Client:

Rev:

Dwg Number:

C2

TOWEL RAIL SCHEDULE

MANUFACTURER:	TOWEL RADS
TR REF:	STAT ZONE: MODEL (SIZE): ROOM:
TR1	Z1 PISA WHITE STRAIGHT 500 x 800 BATHROOM

FCU SCHEDULE

MANUFACTURER / RANGE:	MITSUBISHI
REF:	MODEL: DUCT SIZE: SERVING ROOM:
FCU1	PEFY-WP40VMS1-E 1500 LIVING/KITCHEN/DINING

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