



General notes:

1. Positions of all equipment, ductwork and fittings are indicative only.
2. Contractors shall confirm the sequence of installation works to ensure safe access is maintained.
3. Attention is drawn to health & safety issues. Liaise with the main contractor to ensure that installation works are programmed to minimise H&S risks and minimise disruption.
4. All dimensions / duct sizes are in millimetres unless otherwise stated.
5. This drawing was produced using CAD and should not be amended by hand.
6. All dimensions shown are for reference and should be checked on site prior to commencement of work.

Specific notes:

1. This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl. mechanical, catering, electrical, sprinklers) along with contract documentation and specification for the works.
2. Ensure all method statements, sign offs and approvals are in place before proceeding with any works.
3. All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
4. The HVAC services works shall be carried out in full accordance with the client specification and shall, together with any standard technical guide and specification, be subject to the approval of the client.
5. Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
6. Galvanised ductwork to be manufactured to DW144.
7. Ductwork shall be installed in accordance with all current industry standard guidelines / regulations. Duct dampers shown on drawings are their internal dimensions (not including flanges and ferris).
8. Access doors needed on kitchen extract duct every 1000mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or pithead entry etc. Access panels to be provided by main contractor in any solid ceilings where that requirements indicated by HVAC installation contract.
9. Duct connections with fans and other equipment to be a manufactured canvas connector to prevent duct vibration noise and transmission of vibrations.
10. Valves control dampers shall be installed on branch legs and diffuser / grille terminals to facilitate commissioning.
11. Supply and secondary fan coil unit ductwork to be fully insulated.
12. Fresh air intakes and exhaust locations are shown individually on these drawings. The exact positions shall be agreed with the client, architect and the main contractor prior to installation and shall be subject to the approval of the client.
13. Position of all grilles / air valves shown are in optimum positions for all flows. This grille to be positioned as close as practicable to location shown and coordinated with other services and fabric constraints.
14. Fire dampers are to be shown on ductwork (excluding kitchen extract ducts) penetrating fire compartment divisions and shall incorporate certified fire dampers to match the fan rating, together with access panels. Reference to be made to architect's strategy drawing to establish locations. Fire dampers are shown individually on these drawings.
15. All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
16. Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant's specification.
17. Access required to all plant equipment for maintenance and cleaning.
18. Refer to catering specialist layout to determine confirmed canopy sizes and location.
19. Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drains from the FCUs to be run to the nearest drain (Covers, sealed to manufacturer and their requirements. Both shall be the equivalent plastic or copper pipe).
20. Install all mechanical equipment in accordance with manufacturer's guidelines.
21. Catering condensers are not CUL equipment. However, they are indicated shown on CUL drawings to allow for prohibited space and access within the HVAC plant area.
22. Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
23. No other loads (other services or main loadings) shall be hung from ductwork supports.

No.	Date	Rev.	By	Revision Description
R	15-02-22	PR		As Fitted.
Q	12-10-21	GP		Updated AC & Supply Ductwork.
P	05-10-21	JJ		Updated GA & RCP.
O	27-09-21	JJ		Controllers added.
N	13-09-21	GP		GE & TE Amendments, SBDs Added.
M	31-08-21	JJ		Updated GA & RCP.
L	23-08-21	JJ		Kitchen extract attenuator updated.
K	03-08-21	JJ		Canopy updated.
J	03-08-21	JJ		Supply route updated.
I	02-08-21	PR		Revised KE plans.
H	13-07-21	JJ		Slab photos added.
G	15-06-21	JJ		ESP units updated.
F	22-03-21	JJ		Updated to suit new GA & RCP.
E	21-01-21	JJ		Scale bar added.
D	18-12-20	JJ		Filtration added.
C	03-03-20	JJ		Updated KE system.
B	17-08-20	JJ		Updated KE system.
A	16-07-20	PR		Updated KE system, b.o.h extract and risers.

Client: **FIVE GUYS**
BURGERS and FRIES

Project:
Five Guys
17 Piccadilly
Manchester
M1 1LS

Drawing Title:
Basement & Ground Floor
HVAC Layout
As Fitted

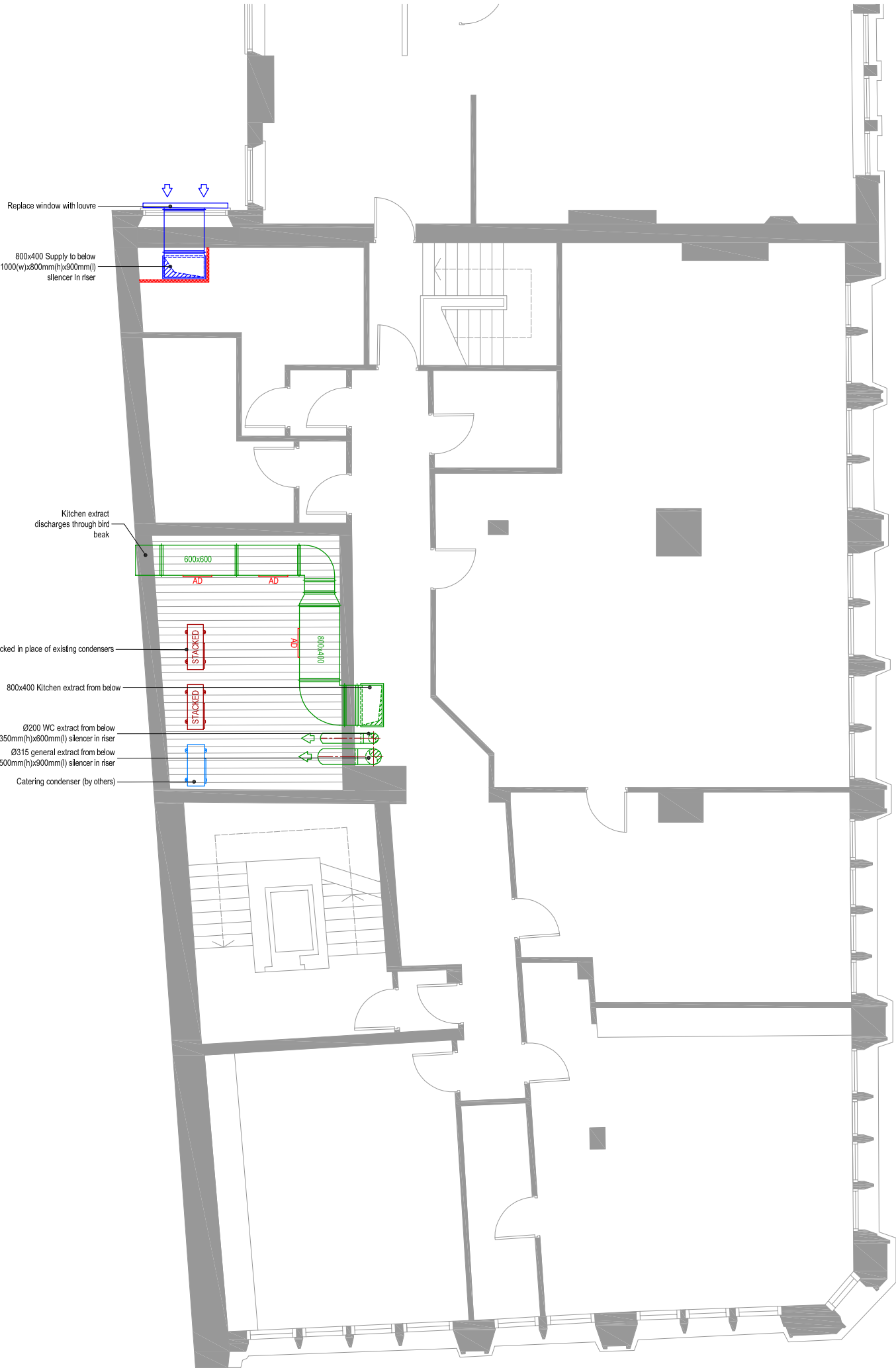
Drawing No.: **016-229-01** Rev: **R**

Scale: 1:50 @ A1 1:100 @ A3
Drawn By: JJ Checked By: Date: 15/07/20

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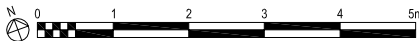
AD ACCESS DOOR IN KITCHEN
EXTRACT DUCT FOR CLEANING
EQUIPMENT OVER 25KG
CANOPIES, ALL SQUARE / RECTANGULAR DUCTWORK &
+Ø250 SPIRAL LENGTHS ASSUMED TO BE OVER 25KG



Existing Condenser Location



First Floor Plan



- General notes:
- Positions of all equipment, ductwork and fittings are indicative only.
 - Contractors shall confirm the sequence of installation works to ensure safe access is maintained.
 - Attention is drawn to health & safety issues. Liaise with the main contractor to ensure that installation works are programmed to minimise H&S risks and optimise coordination.
 - All dimensions / duct sizes are in millimetres unless otherwise stated.
 - This drawing was produced using CAD and should not be amended by hand.
 - All dimensions shown are for reference and should be checked on site prior to commencement of work.
- Specific notes:
- This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl mechanical, catering, electrical, sprinklers) along with contract documentation and specification for the works.
 - Ensure all method statements, sign offs and approvals are in place before proceeding with any works.
 - All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
 - The HVAC services works shall be carried out in full accordance with the client specification and latest, together with any relevant technical guide and specification.
 - Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
 - Galvanised ductwork to be manufactured to DW144.
 - Ductwork sized in accordance with all current industry standard guidelines / regulations. Duct diameters shown on drawings are their internal dimensions (not including flanges and ferris).
 - Access doors required on kitchen extract duct every 1500mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or pithead entry etc. Access panels to be provided by main contractor in any solid ceilings where that requirements indicated by HVAC installation contractor.
 - Duct connections with fans and other equipment to be a manufactured canvas connector to prevent duct break/air leaks and transmission of vibrations.
 - Volume control dampers shall be installed on all branch legs and diffuser / grille terminals to facilitate commissioning.
 - Supply and secondary fan coil unit ductwork to be fully insulated.
 - Fresh air intakes and exhausts locations are shown individually on these drawings. The exact positions shall be agreed with the client, architect and the main contractor and shall be shown accurately on the working / coordinated drawings.
 - Positions of all grilles / air valves shown are in optimum positions for all flow. The grilles to be positioned as close as practicable to location shown and coordinated with other services and fabric constraints.
 - Fire dampers are to be shown on ductwork (excluding kitchen extract ducts) penetrating fire compartment divides and shall incorporate certified fire dampers to match the barrier rating, together with access panels. Reference to be made to architect the strategy drawing to establish locations. Fire dampers are shown indicatively on these drawings.
 - All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
 - Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant's specification.
 - Access required to all plant equipment for maintenance and cleaning.
 - Refer to catering specialist layout to determine confirmed canopy sizes and location.
 - Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drains from the FCUs to be run to the nearest drain. (Comply with manufacturer and their requirements. Both shall be the equivalent plastic or copper pipes).
 - Install all mechanical equipment in accordance with manufacturers guidelines.
 - Catering condensers are not CVL equipment. However, they are indicatively shown on CVL drawings to allow for production space and access within the HVAC plant area.
 - Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
 - No other loads (other services or main loadings) shall be hung from ductwork supports.

G	15-02-22	PR	As Fitted.
F	14-04-21	JJ	Existing condenser location added.
E	23-03-21	JJ	GA updated.
D	21-01-21	JJ	Scale bar added.
C	05-01-21	JJ	Extract discharge revised.
B	17-12-20	JJ	GA updated.
A	16-07-20	PR	Updated risers and supply intake.

No.	Date	Rev. By	Revision Description
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Client: **FIVE GUYS**
BURGERS and FRIES

Project:

Five Guys
17 Piccadilly
Manchester
M1 1LS

Drawing Title:

First Floor HVAC Layout
As Fitted

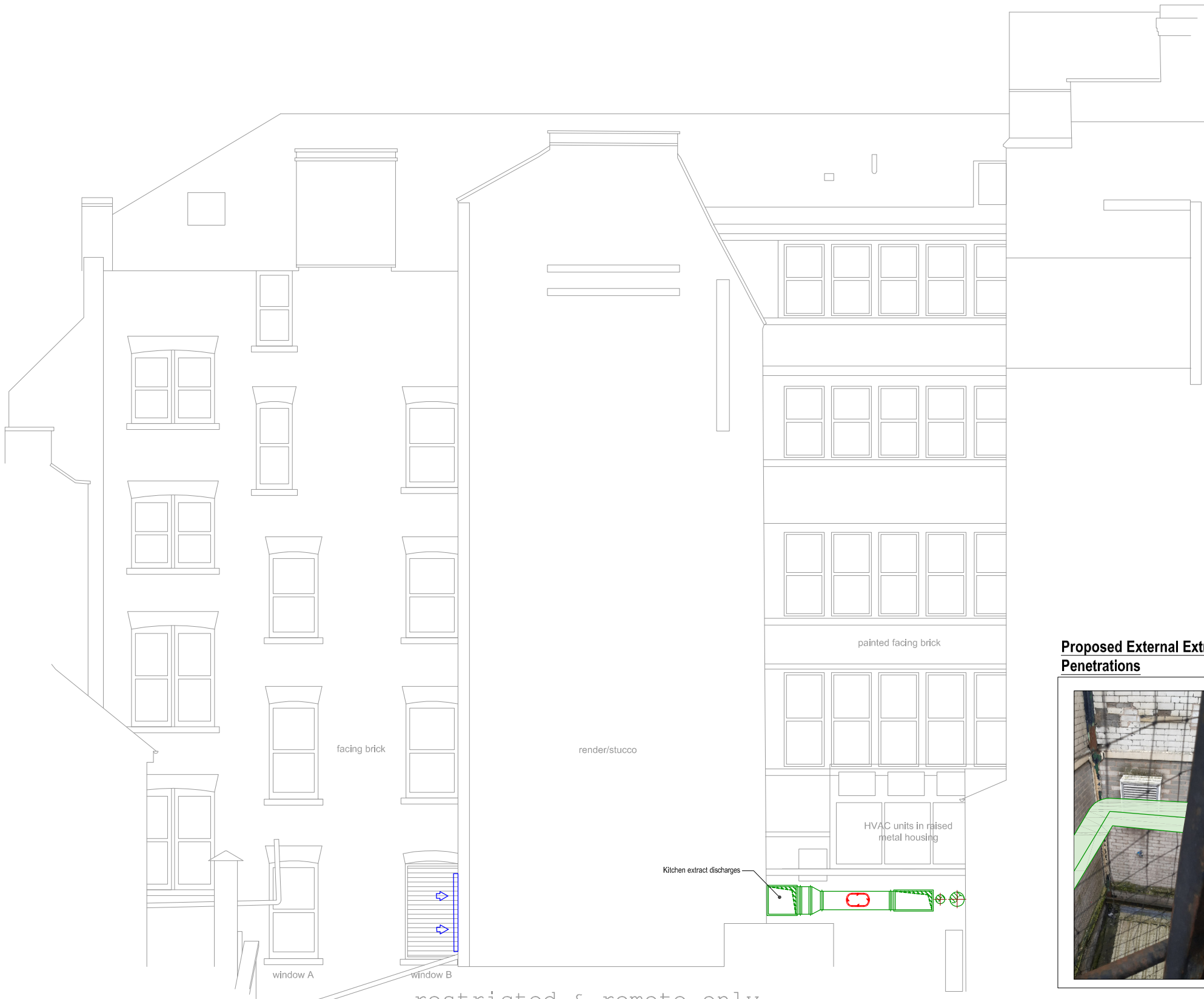
Drawing No.:	Rev:
016-229-02	G

Scale: 1:50 @ A1 1:100 @ A3
Drawn By: JJ Checked By: Date: 15/07/20

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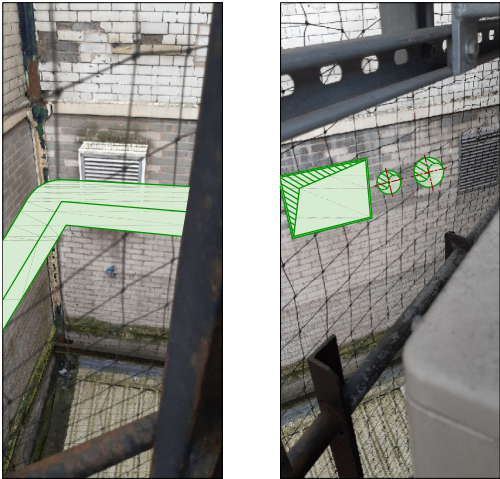


AD ACCESS DOOR IN KITCHEN
EXTRACT DUCT FOR CLEANING
EQUIPMENT OVER 25KG
CANOPIES, ALL SQUARE / RECTANGULAR DUCTWORK &
+Ø250 SPIRAL LENGTHS ASSUMED TO BE OVER 25KG



Proposed rear elevation

Proposed External Extract Ductwork & Penetrations



General notes:
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3. Attention is drawn to health & Safety issues. Liaise with the main contractor to ensure that installation works are programmed to minimise H&S risks and optimise co-ordination.
4. All dimensions / duct sizes are in millimetres unless otherwise stated.
5. This drawing was produced using CAD and should not be amended by hand.
6. All dimensions shown are for reference and should be checked on site prior to commencement of work.

Specific notes:
1. This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl mechanical, catering, electrical, sprinklers) along with contract documentation and specification for the works.
2. Ensure all method statements, sign offs and approvals are in place before proceeding with any works.
3. All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
4. The HVAC services works shall be carried out in full accordance with the client specification and latest, together with any relevant technical guide and specification.
5. Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
6. Galvanised ductwork to be manufactured to DW144.
7. Ductwork fitted in accordance with all current industry standard guidelines / regulations. Duct dimensions shown on drawings are clear internal dimensions (not including flanges and ferris).
8. Access doors required on kitchen extract duct every 1500mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or pithead entry etc. Access panels to be provided by main contractor in any solid ceilings where that requirements indicated by HVAC installation contractor.
9. Duct connections with fans and other equipment to be a manufactured canvas connector to prevent duct thermal noise and transmission of vibrations.
10. Volume control dampers shall be installed on all branch legs and diffuser / grille terminals to facilitate commissioning.
11. Supply and secondary fan coil unit ductwork to be fully insulated.
12. Fresh air intakes and exhaust locations are shown indicatively on these drawings. The exact positions shall be agreed with the client, architect and the main contractor and shall be shown accurately on the working / coordinated drawings.
13. Position of all grilles / air valves shown and in optimum positions for all flow. The grilles to be positioned as close as practicable to location shown and coordinated with other services and fabric constraints.
14. Fire dampers are to be shown on ductwork (excluding kitchen extract ducts) penetrating fire compartment divides and shall incorporate certified fire dampers to match the tender rating, together with access panels. Reference to be made to architect fire strategy drawing to establish locations. Fire dampers are shown indicatively on these drawings.
15. All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
16. Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant specification.
17. Access required to all plant equipment for maintenance and cleaning.
18. Refer to catering specialist layout to determine confirmed canopy sizes and location.
19. Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drains from the FCUs to be run to the nearest drain (Copper, subject to manufacturer and their requirements. Both shall be the equivalent plastic or copper pipe).
20. Install all mechanical equipment in accordance with manufacturers guidelines.
21. Catering condensers are not CVL equipment. However, they are indicatively shown on CVL drawings to allow for probedness issues and access within the HVAC plant area.
22. Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
23. No other loads (other services or man loading) shall be hung from ductwork supports.

C	15-02-22	PR	As Fitted
B	14-04-21	JJ	Exterior ductwork pictures added.
A	21-01-21	JJ	Scale bar added.
No.	Date	Rev. By	Revision Description

Client
FIVE GUYS
BURGERS and FRIES

Project :

Five Guys
17 Piccadilly
Manchester
M1 1LS

Drawing Title :

HVAC Elevation
As Fitted

Drawing No.:	Rev:
016-229-03	C
Scale: 1:50 @ A1 1:100 @ A3	
Drawn By: JJ	Checked By:• Date: 18/12/20

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