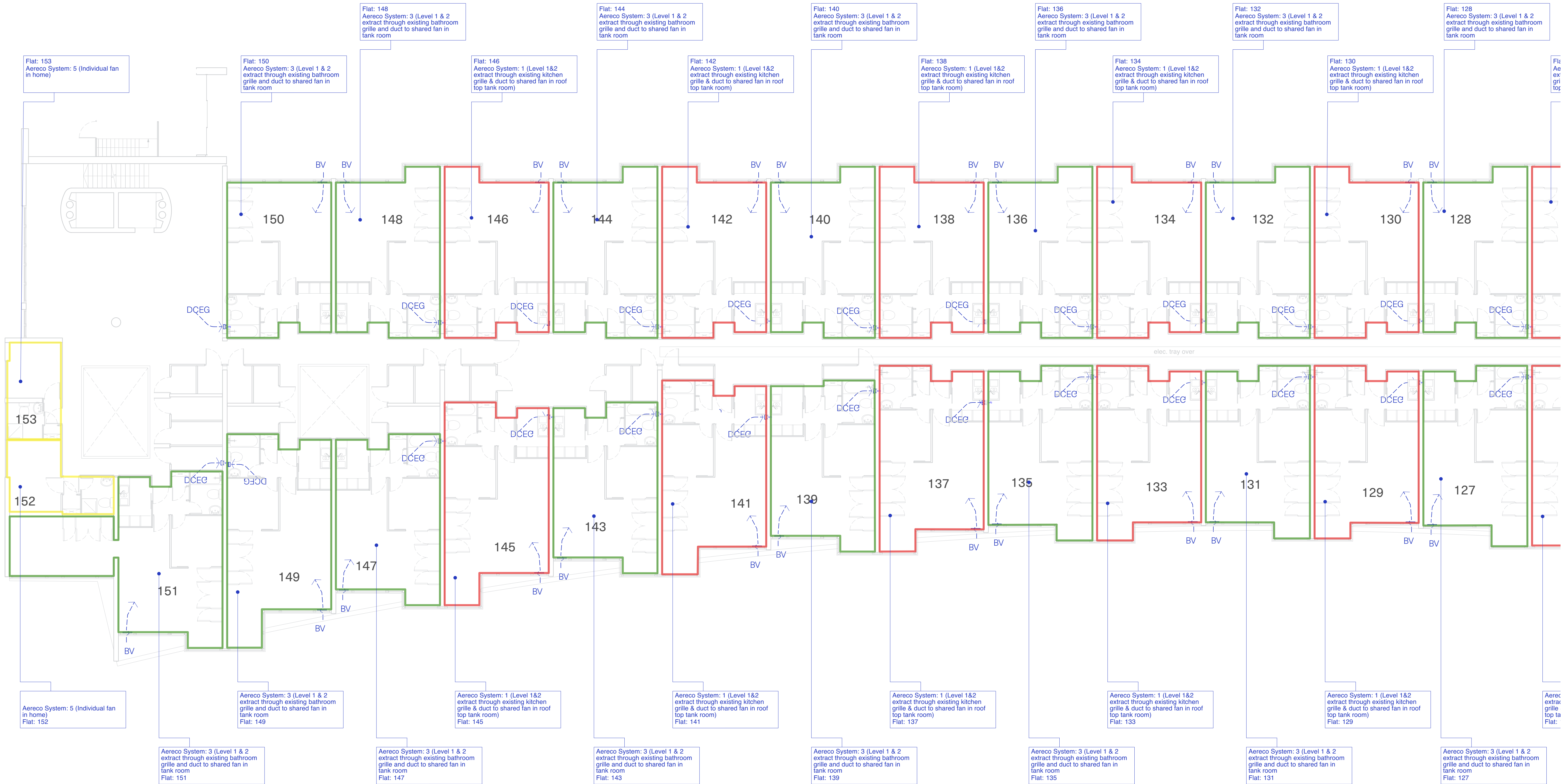




Plan: Level 01 - Part 1

1

Ventilation Strategy Level 01 - Part 1

revisions	
1	First Issue
2	System references updated.
07/09/2023	
20/10/2023	

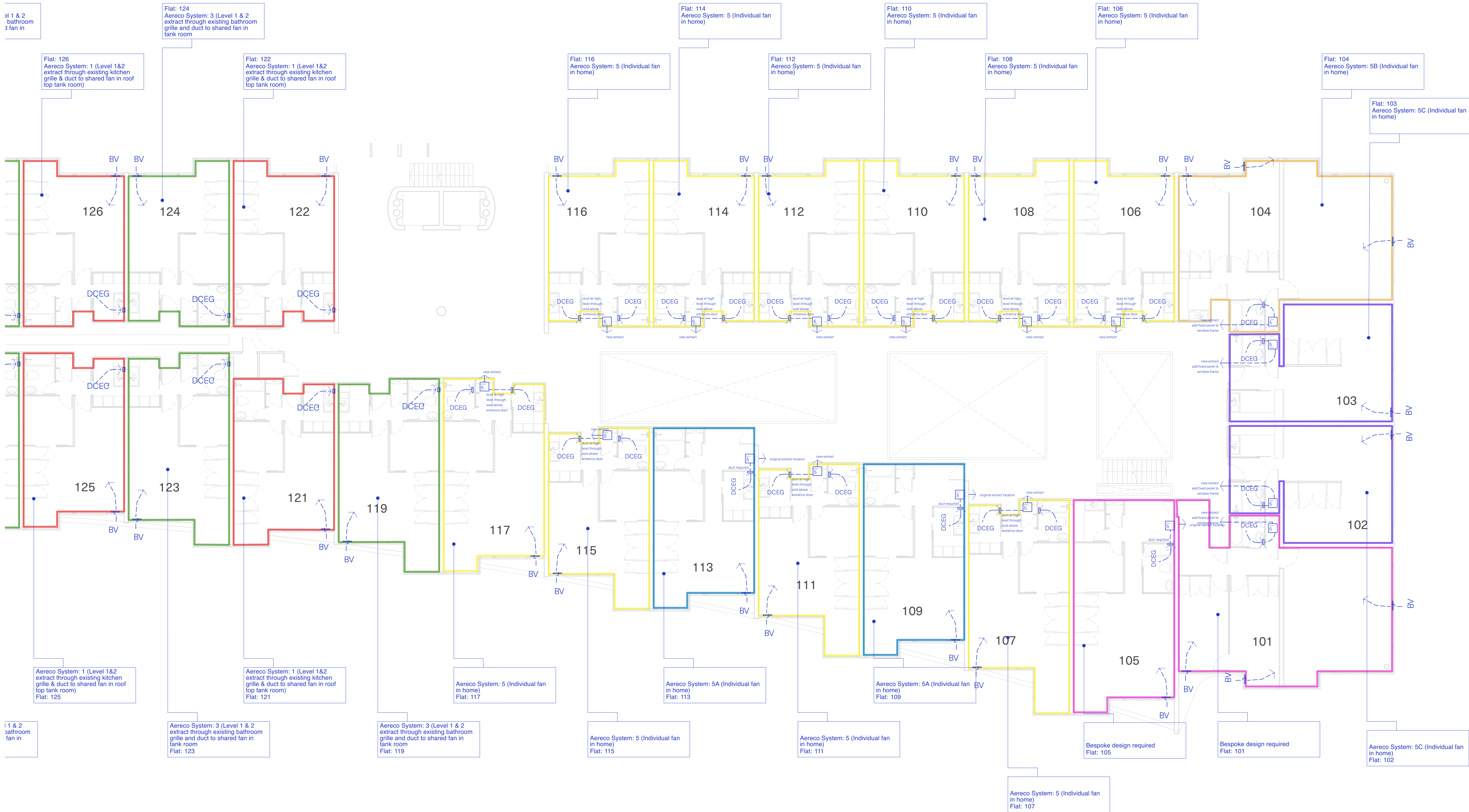
Mech. Vent

- Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room)
- Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room)
- Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille)
- Aereco System: 5 (Individual fan in home)
- Aereco System: 5A (Individual fan in home)
- Aereco System: 5B (Individual fan in home)
- Aereco System: 5C (Individual fan in home)
- Bespoke design required

date issued	07/09/2023	drawing title	Ventilation Strategy Level 01 - Part 1
purpose of issue	Tender	scale	1:100 @ A1
issued by	CD	scale reduced	1:200 @ A3
checked by	CD	drawing number	2450-10-ZZ-DR-10-910
project name	Crescent House	rev. 2	status P1
client	City Of London		
sp file name	2450-10-ZZ-DR-10-910-VentStrategy.vwx		
sp project number	2450		



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Plan: Level 01 - Part 2

revisions 1 First Issue 07/09/2023 2 System references updated. 20/10/2023	Mech. Vent Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room) Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room) Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille) Aereco System: 5 (Individual fan in home) Aereco System: 5A (Individual fan in home) Aereco System: 5B (Individual fan in home) Aereco System: 5C (Individual fan in home) Bespoke design required	date issued 07/09/2023 purpose of issue Tender issued by CD checked by CD
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project name

Crescent House

client

City Of London

sp file name

2450-10-ZZ-DR-10-911-VentStrategy.vwx

sp project number

2450

drawing title

Ventilation Strategy Level 01 - Part 2

scale

1:100 @ A1

scale reduced

1:200 @ A3

drawing number

2450-10-ZZ-DR-10-911

rev. 2

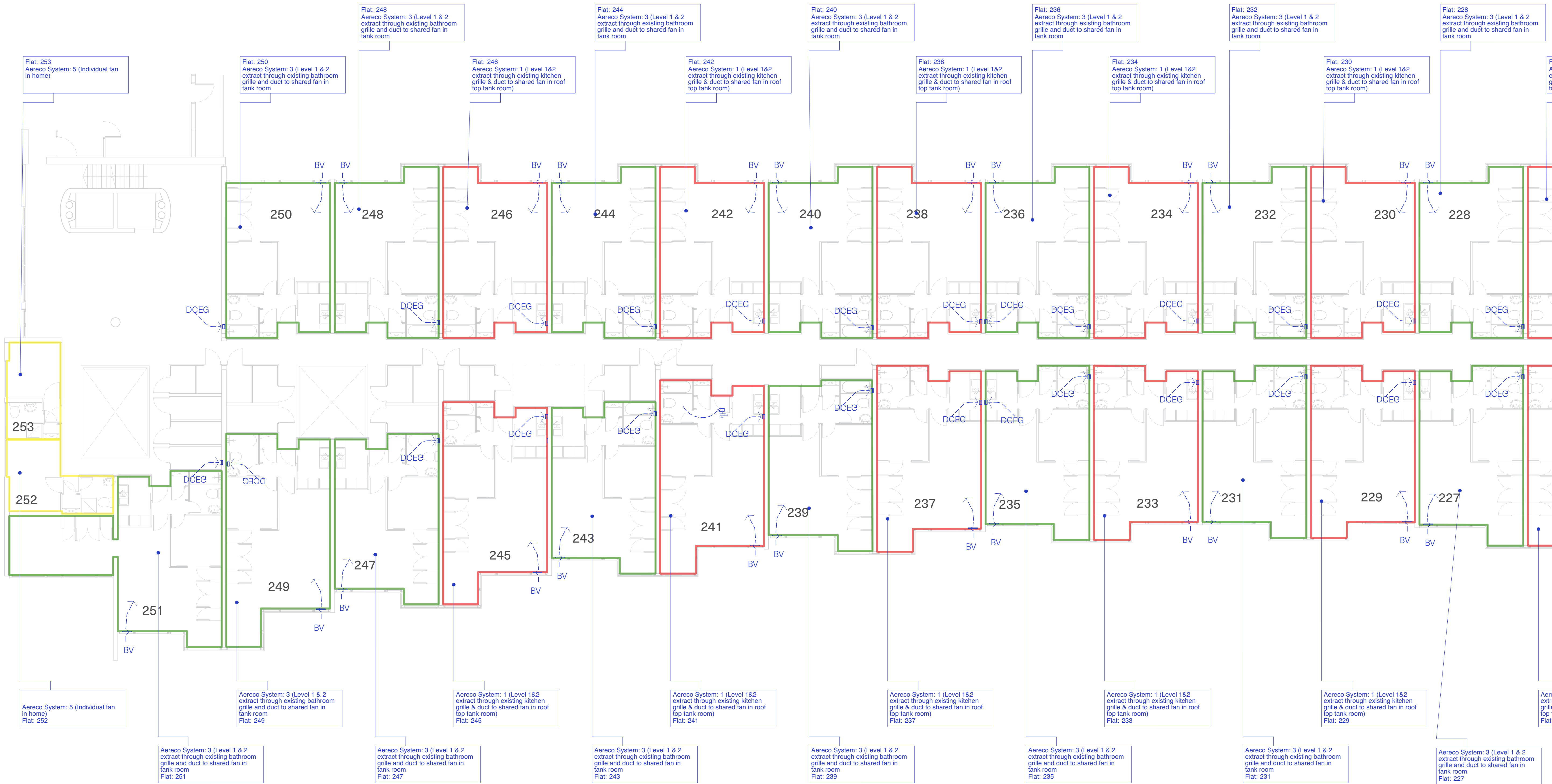
status

P1

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Plan: Level 02 - Part 1

revisions

1

First Issue

07/09/2023

2

System references updated.

20/10/2023

Mech. Vent

Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room)

Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room)

Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille)

Aereco System: 5 (Individual fan in home)

Aereco System: 5A (Individual fan in home)

Aereco System: 5B (Individual fan in home)

Aereco System: 5C (Individual fan in home)

Bespoke design required

date issued

07/09/2023

purpose of issue

Tender

issued by

CD

checked by

CD

project name

Crescent House

client

City Of London

sp file name

2450-10-ZZ-DR-10-912-VentStrategy.vwx

sp project number

2450

drawing title

Ventilation Strategy Level 02 - Part 1

scale

1:100 @ A1

scale reduced

1:200 @ A3

drawing number

2450-10-ZZ-DR-10-912

rev. 2

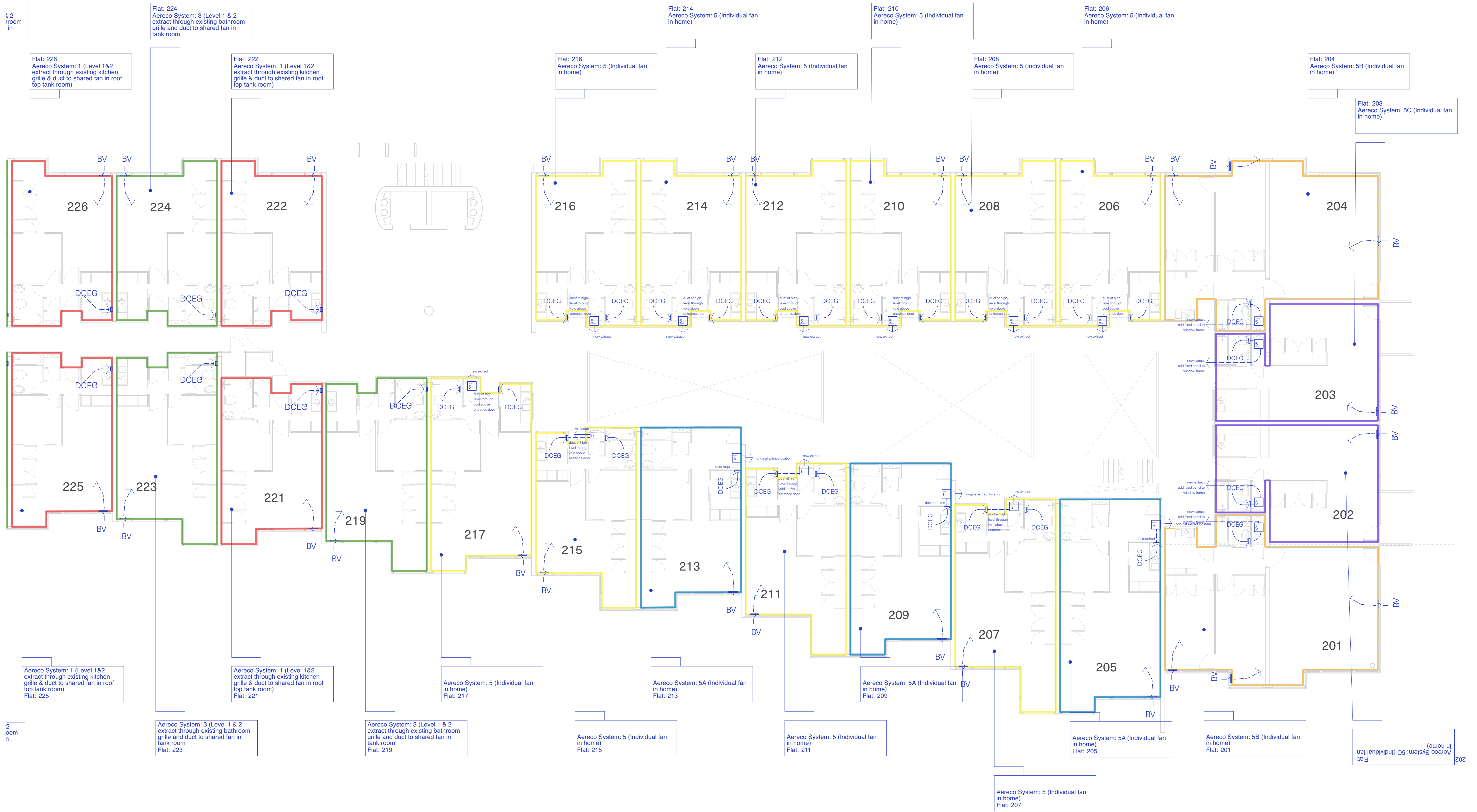
status

P1

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Plan: Level 02 - Part 2

1

Ventilation Strategy Level 02 - Part 2

revisions 1 First Issue 07/09/2023 2 System references updated. 20/10/2023	Mech. Vent Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room) Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room) Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille) Aereco System: 5 (Individual fan in home) Aereco System: 5A (Individual fan in home) Aereco System: 5B (Individual fan in home) Aereco System: 5C (Individual fan in home) Bespoke design required	date issued 07/09/2023 purpose of issue Tender issued by CD checked by CD
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project name

Crescent House

client

City Of London

sp file name

2450-10-ZZ-DR-10-913-VentStrategy.vwx

sp project number

2450

drawing title

Ventilation Strategy Level 02 - Part 2

scale

1:100 @ A1

scale reduced

1:200 @ A3

drawing number

2450-10-ZZ-DR-10-913

rev. 2

status

P1

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Plan: Level 03 - Part 1

1

Ventilation Strategy Level 03 - Part 1

revisions		
1	First Issue	07/09/2023
2	System references updated.	20/10/2023

Mech. Vent

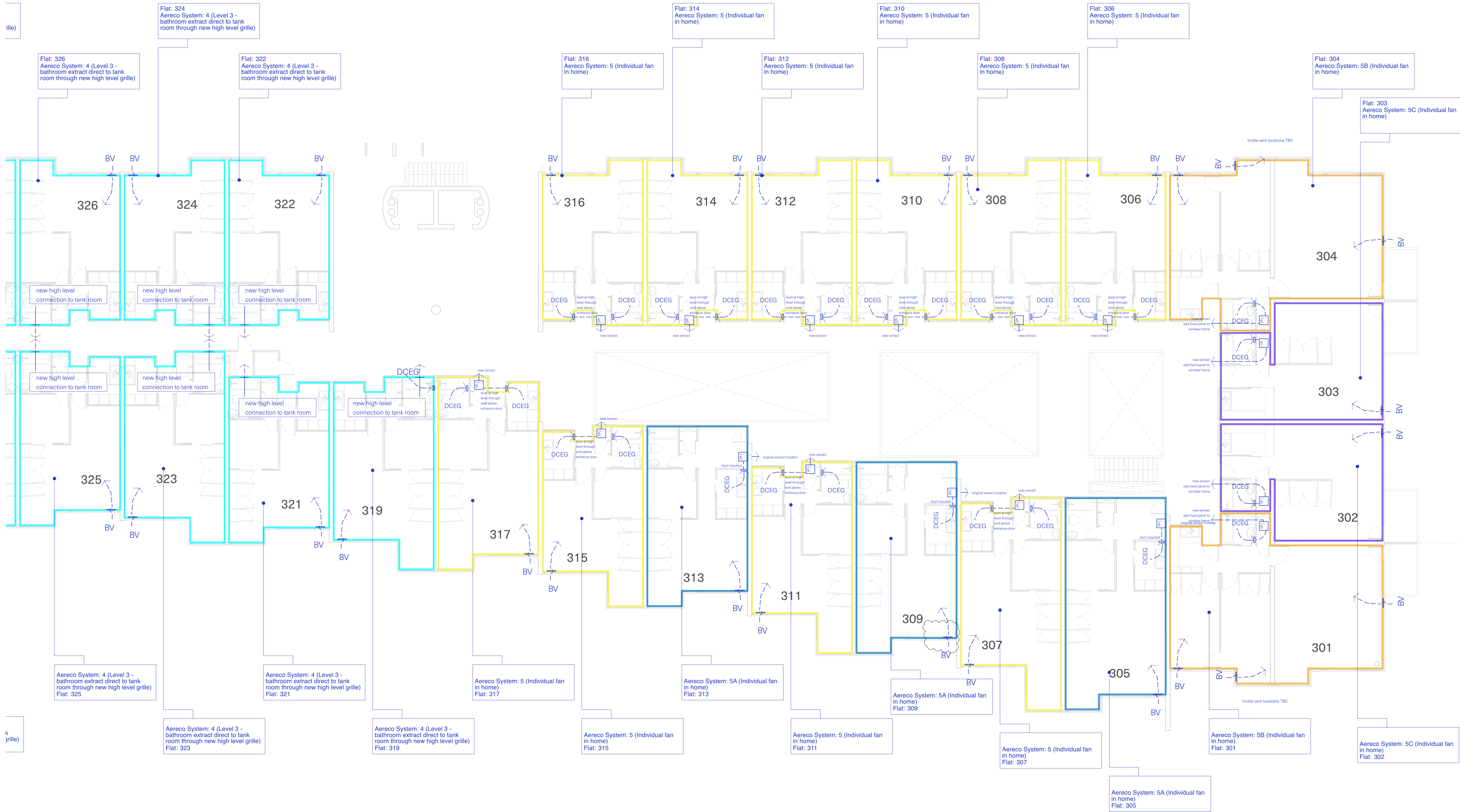
- Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room)
- Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room)
- Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille)
- Aereco System: 5 (Individual fan in home)
- Aereco System: 5A (Individual fan in home)
- Aereco System: 5B (Individual fan in home)
- Aereco System: 5C (Individual fan in home)
- Bespoke design required

date issued	07/09/2023
purpose of issue	Tender
issued by	CD
checked by	CD

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-914-VentStrategy.vwx
sp project number	2450

drawing title	Ventilation Strategy Level 03 - Part 1
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-914
rev. 2 status	P1





Plan: Level 03 - Part 2

1

Ventilation Strategy Level 03 - Part 2

revisions	
1	First Issue
2	System references updated.

07/09/2023
20/10/2023

Mech. Vent

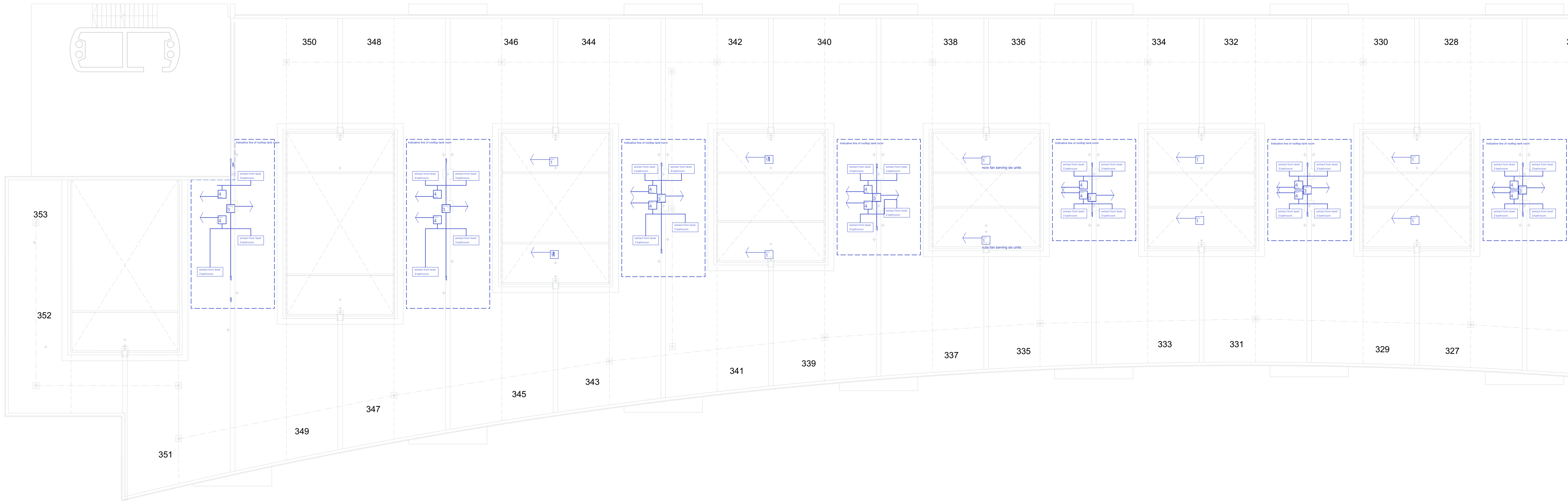
- Aereco System: 1 (Level 1&2 extract through existing kitchen grille & duct to shared fan in roof top tank room)
- Aereco System: 3 (Level 1 & 2 extract through existing bathroom grille and duct to shared fan in tank room)
- Aereco System: 4 (Level 3 - bathroom extract direct to tank room through new high level grille)
- Aereco System: 5 (Individual fan in home)
- Aereco System: 5A (Individual fan in home)
- Aereco System: 5B (Individual fan in home)
- Aereco System: 5C (Individual fan in home)
- Bespoke design required

date issued 07/09/2023
purpose of issue Tender
issued by CD
checked by CD

project name Crescent House
client City Of London
sp file name 2450-10-ZZ-DR-10-915-VentStrategy.vwx
sp project number 2450

drawing title Ventilation Strategy Level 03 - Part 2
scale 1:100 @ A1
scale reduced 1:200 @ A3
drawing number 2450-10-ZZ-DR-10-915
rev. 2 status P1

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Plan: Level 04 - Part 1
2

Ventilation Strategy Level 04 - Part 1

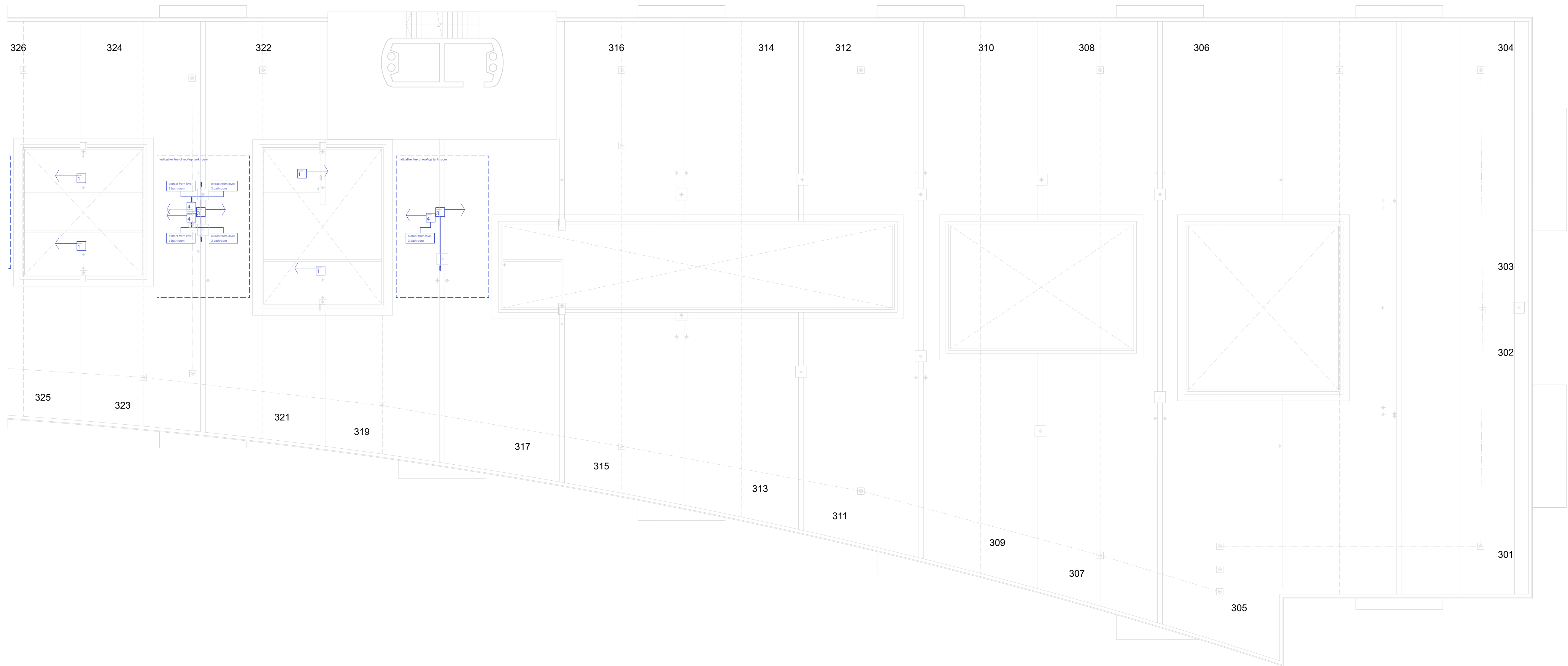
revisions		
1	First Issue	07/09/2023
2	System references updated.	20/10/2023

date issued	07/09/2023
purpose of issue	Tender
issued by	CD
checked by	CD

drawing title	Ventilation Strategy Level 04 - Part 1		
scale	1:100 @ A1		
scale reduced	1:200 @ A3		
drawing number	2450-10-ZZ-DR-10-916	rev. 2	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-916-VentStrategy.vwx
sp project number	2450





Plan: Level 04 - Part 2
2

Ventilation Strategy Level 04 - Part 2

revisions		
1	First Issue	07/09/2023
2	System references updated.	20/10/2023

date issued		07/09/2023	
purpose of issue		Tender	
issued by		CD	
checked by		CD	

project name		Crescent House	
client		City Of London	
sp file name		2450-10-ZZ-DR-10-917-VentStrategy.vwx	
sp project number		2450	

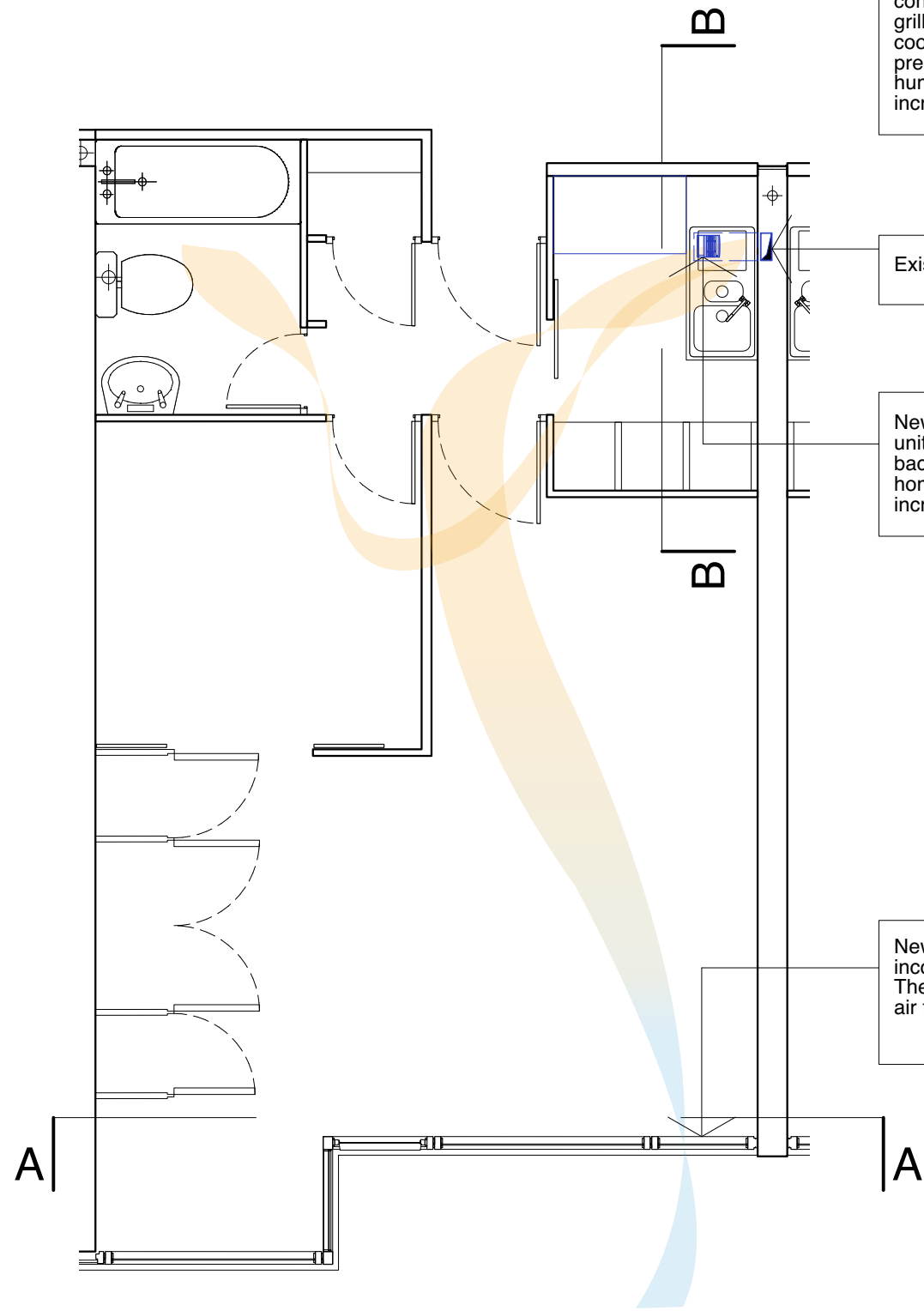
drawing title		Ventilation Strategy Level 04 - Part 2	
scale		1:100 @ A1	
scale reduced		1:200 @ A3	
drawing number		2450-10-ZZ-DR-10-917	
rev.		2	
status		P1	



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Demand Controlled Ventilation
System 01



Typical First & Second Floor Flat Plan

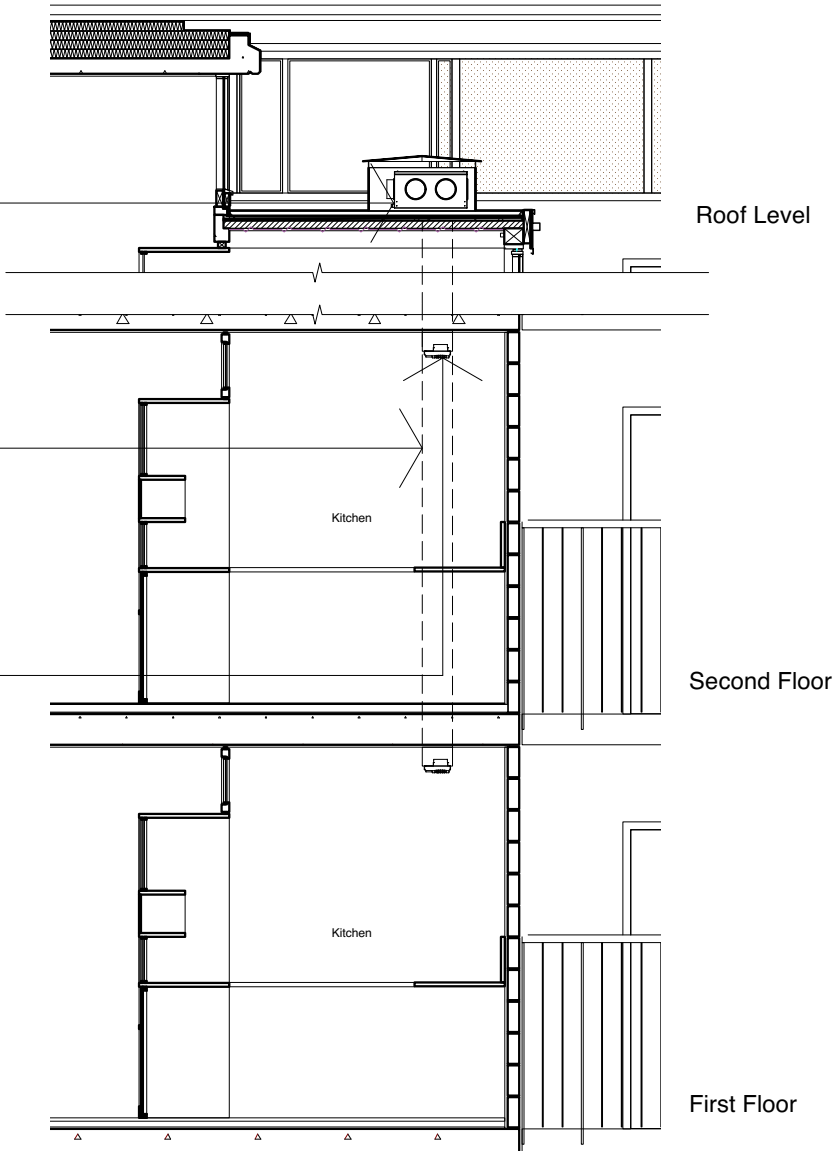
New **acoustic constant pressure fan**, mounted on kitchen flat roof (to replace original fans). Fan housed in metal housing (as original design).

Operation:
The demand controlled extract unit (see below) mounted in the kitchen provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to its original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

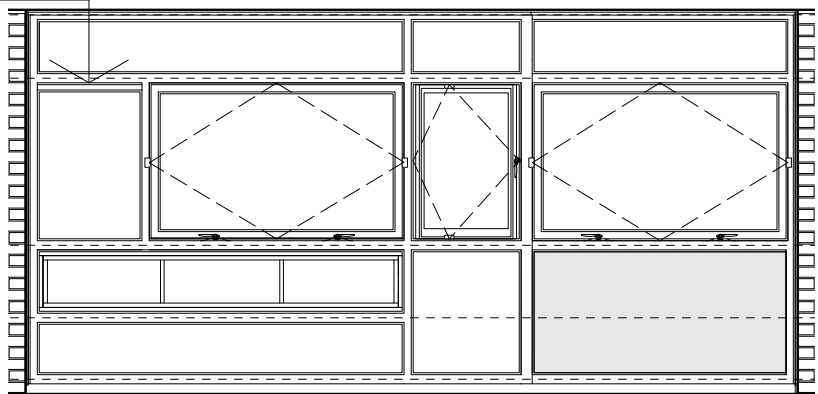
Existing duct located in party wall to be re-used.

New **demand controlled extract unit** to replace existing extract grille. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the size of the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.



Section B-B



Section A-A Showing Typical First & Second Floor Flat

Ventilation System 01

revisions	20/10/2023
1 First Issue	

Dependent on air flow rates achived in home, kitchen, bathroom and living door may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

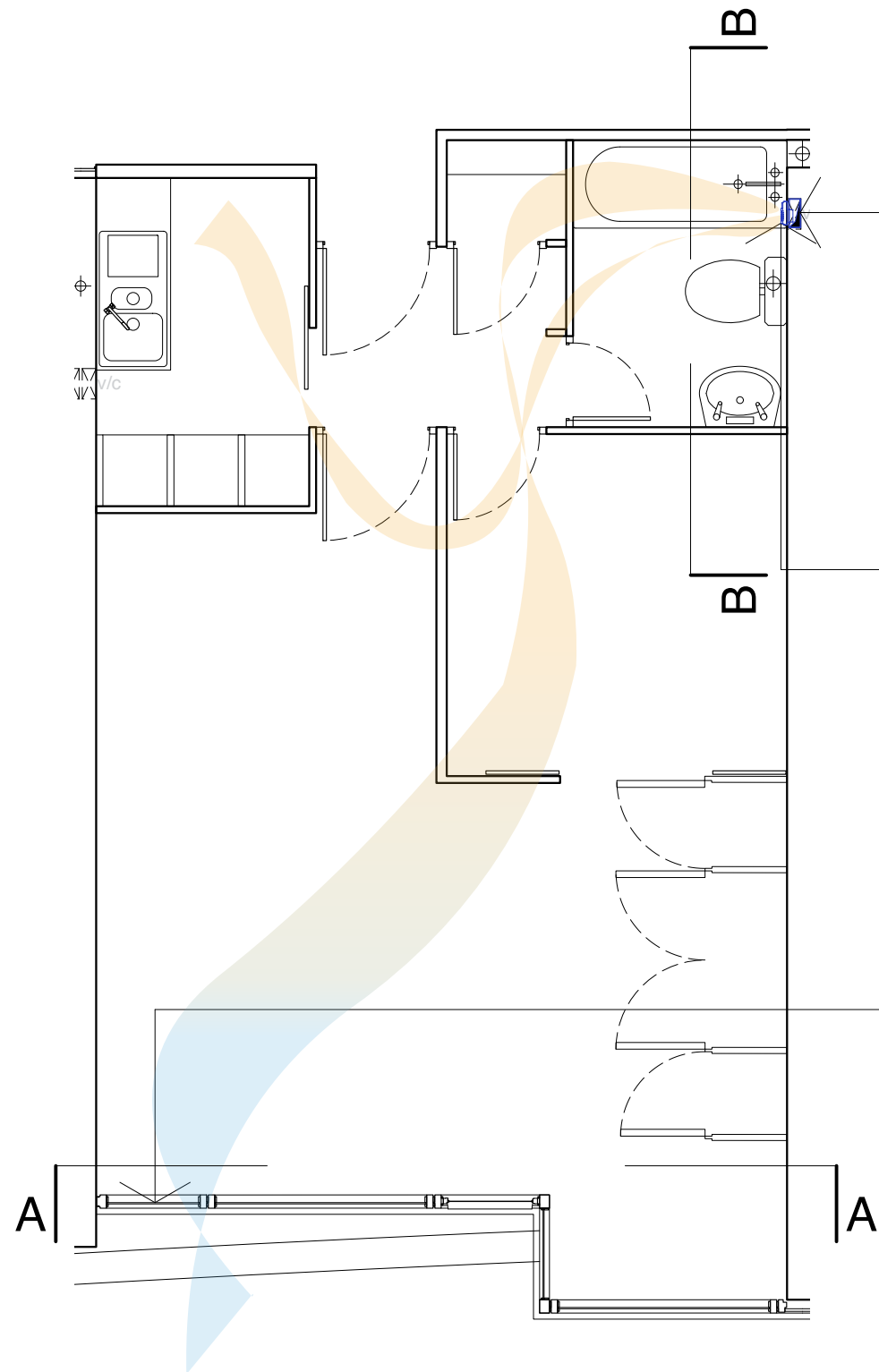
drawing title	Ventilation System 01
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-920
rev. 1 status	P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-920-VentSystem01.vwx
sp project number	2450



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Demand Controlled Ventilation
System 03



Typical First & Second Floor Flat Plan

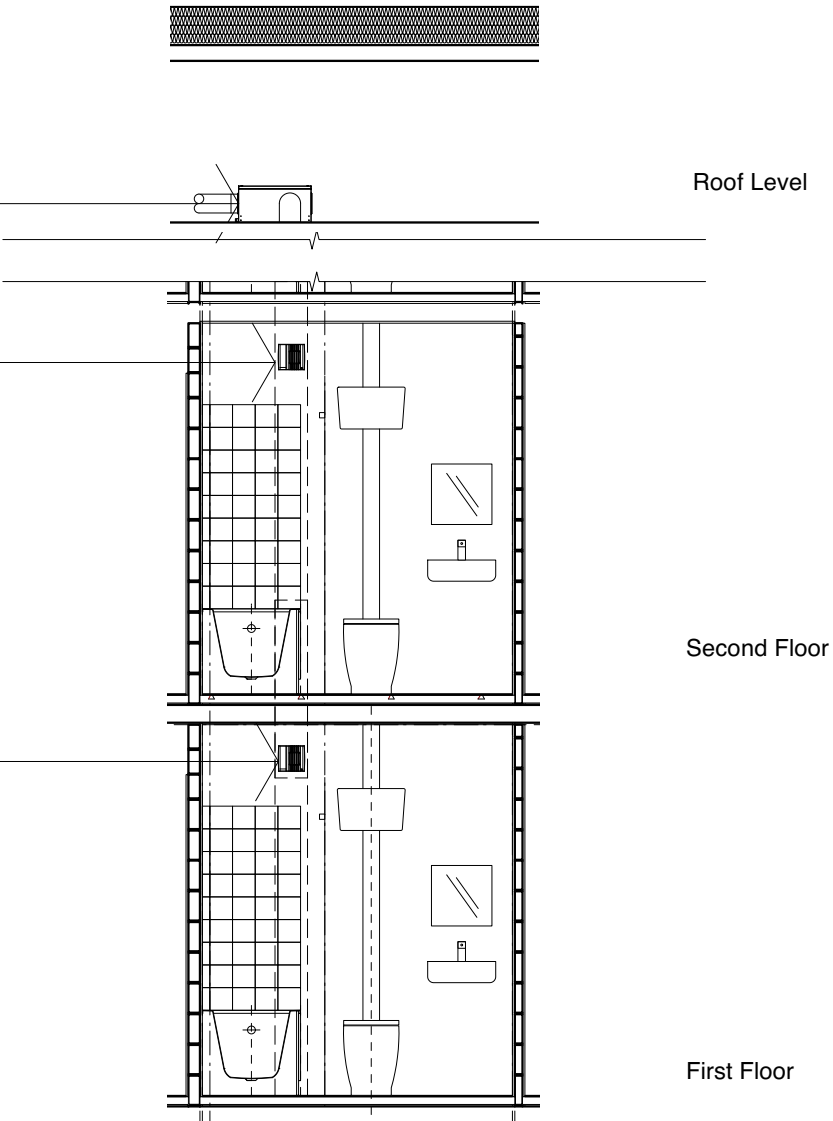
New **acoustic constant pressure fan**, located in roof level tank room (to replace original fans).

Operation:
The demand controlled extract unit (see below) mounted in the bathroom provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to its original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

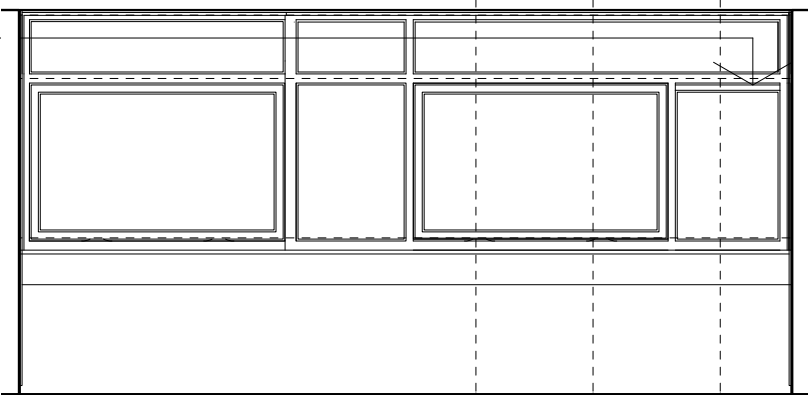
Existing duct located in party wall to be re-used.

New **demand controlled extract unit** to replace existing extract grille. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.



Section B-B



Section A-A Showing Typical First & Second Floor Flat

Ventilation System 03

revisions	20/10/2023
1 First Issue	

Dependent on air flow rates achived in home, kitchen, bathroom and living door may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

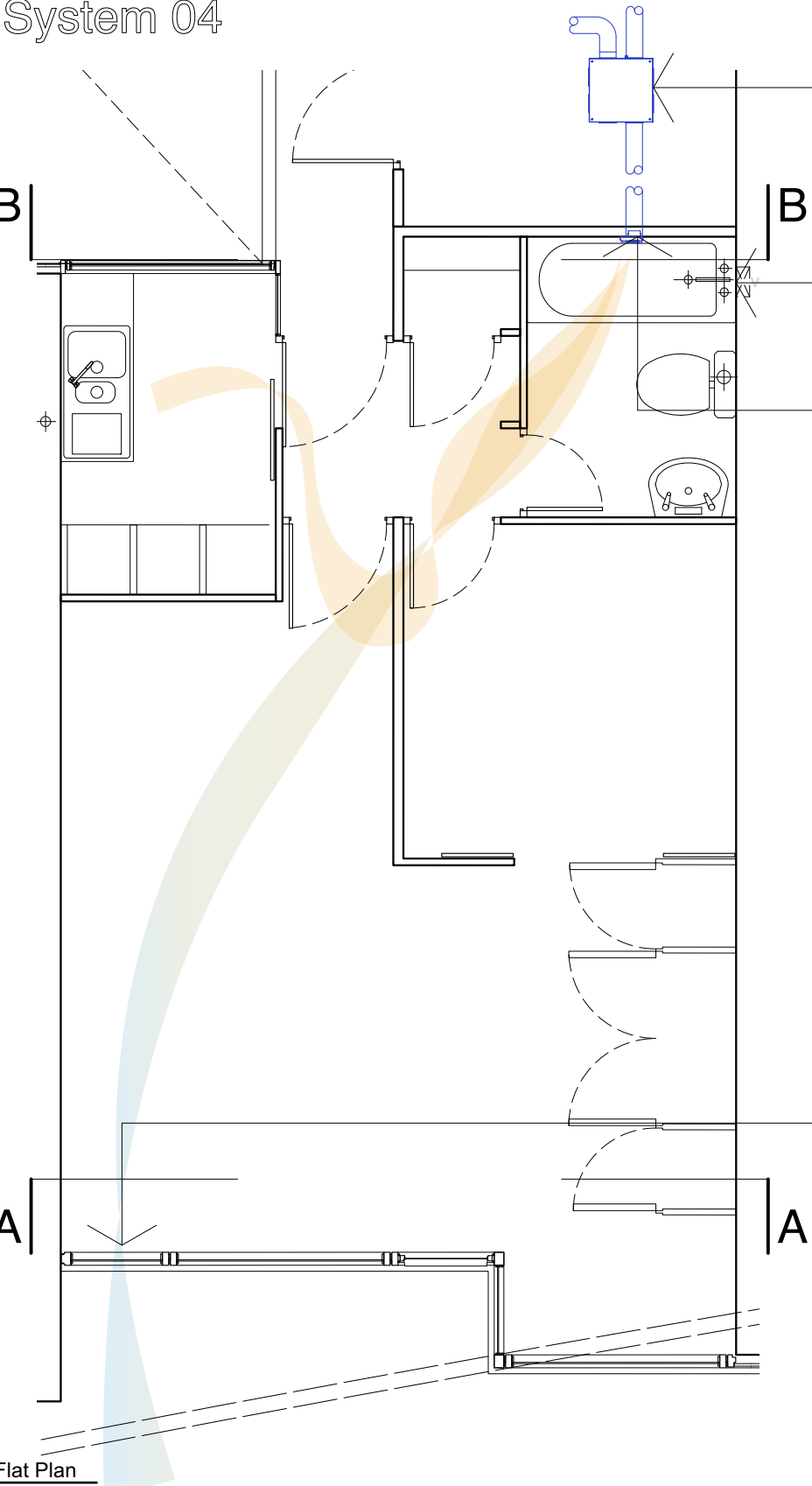
drawing title	Ventilation System 03
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-921
rev. 1 status	P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-921-VentSystem03.vwx
sp project number	2450



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Demand Controlled Ventilation
System 04



Flat Plan

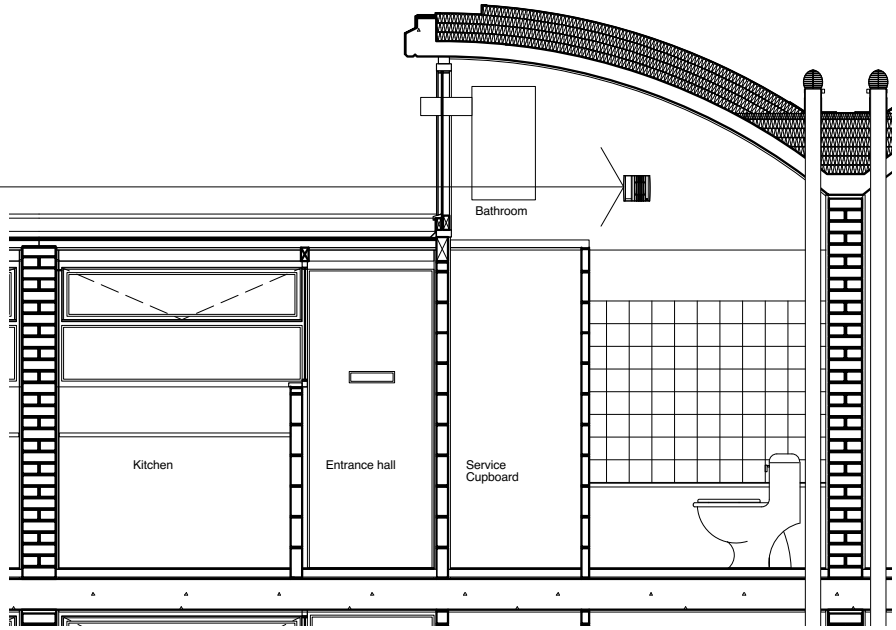
New **acoustic constant pressure fan**, housed in tank room (to replace original fans). All new ductwork within tankroom.

Operation:
The demand controlled extract unit (see below) mounted in the bathroom provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to its original state. The fan detects an increase in pressure and returns to its original low level of background ventilation..

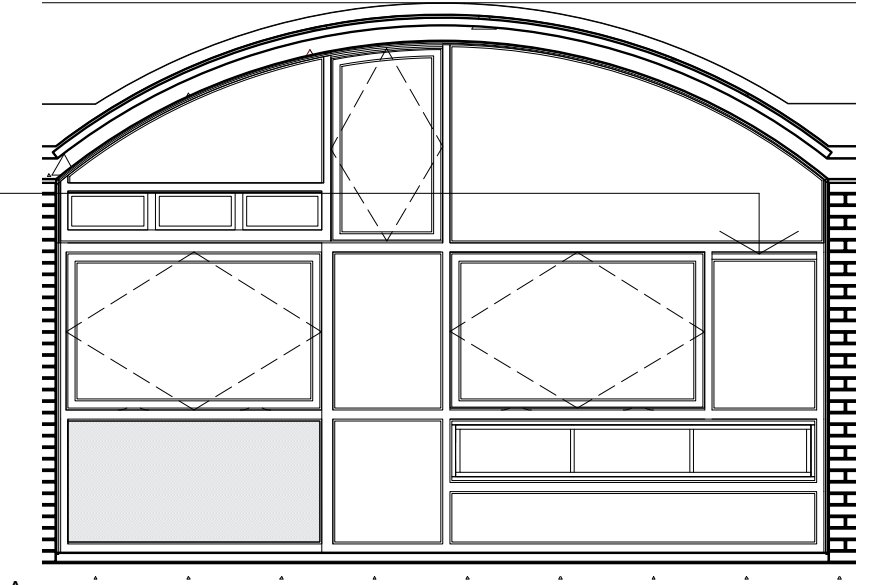
Existing grille into common duct to be replaced and blanked-off.

New **demand controlled extract unit** to replace existing extract grille. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.



Section B-B



Section A-A

Ventilation System 04

revisions	
1	First Issue
20/10/2023	

Dependent on air flow rates achived in home, kitchen, bathroom and living door may require 5-10mm undercut

date issued	XX/XX/2023
purpose of issue	Information
issued by	CD
checked by	CD

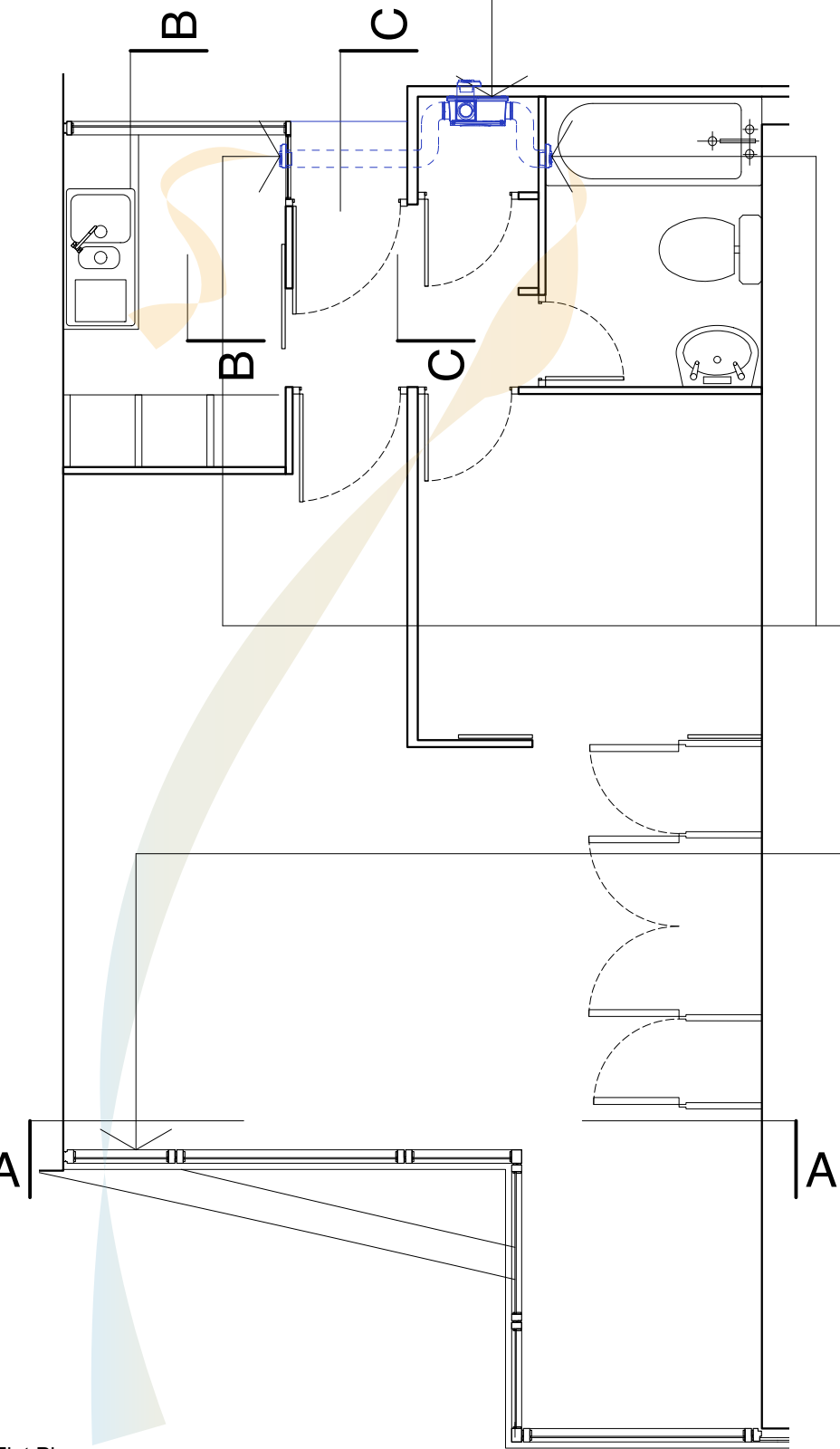
drawing title	Ventilation System 04
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-922
rev. 1	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-922-VentSystem04.vwx
sp project number	2450



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Demand Controlled Ventilation
System 05



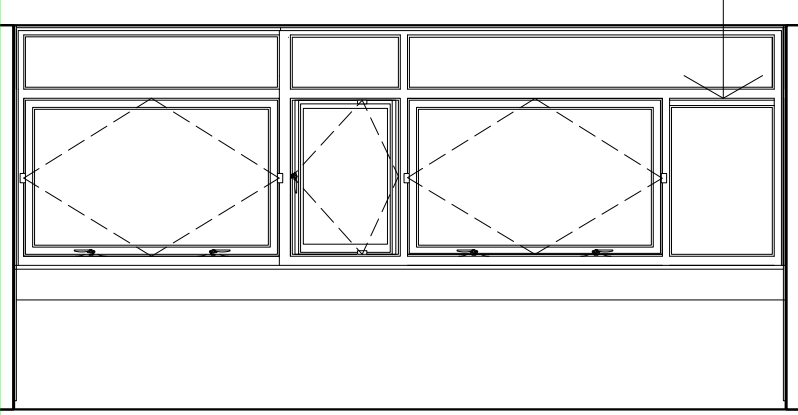
Flat Plan

New **acoustic constant pressure fan**, at highlevel in service cupboard.
Single extract grille mounted at high-level on external wall.
Ductwork connection from fan to demand controled air inlets within service cupboard and at highlevel over front entrance fan light.

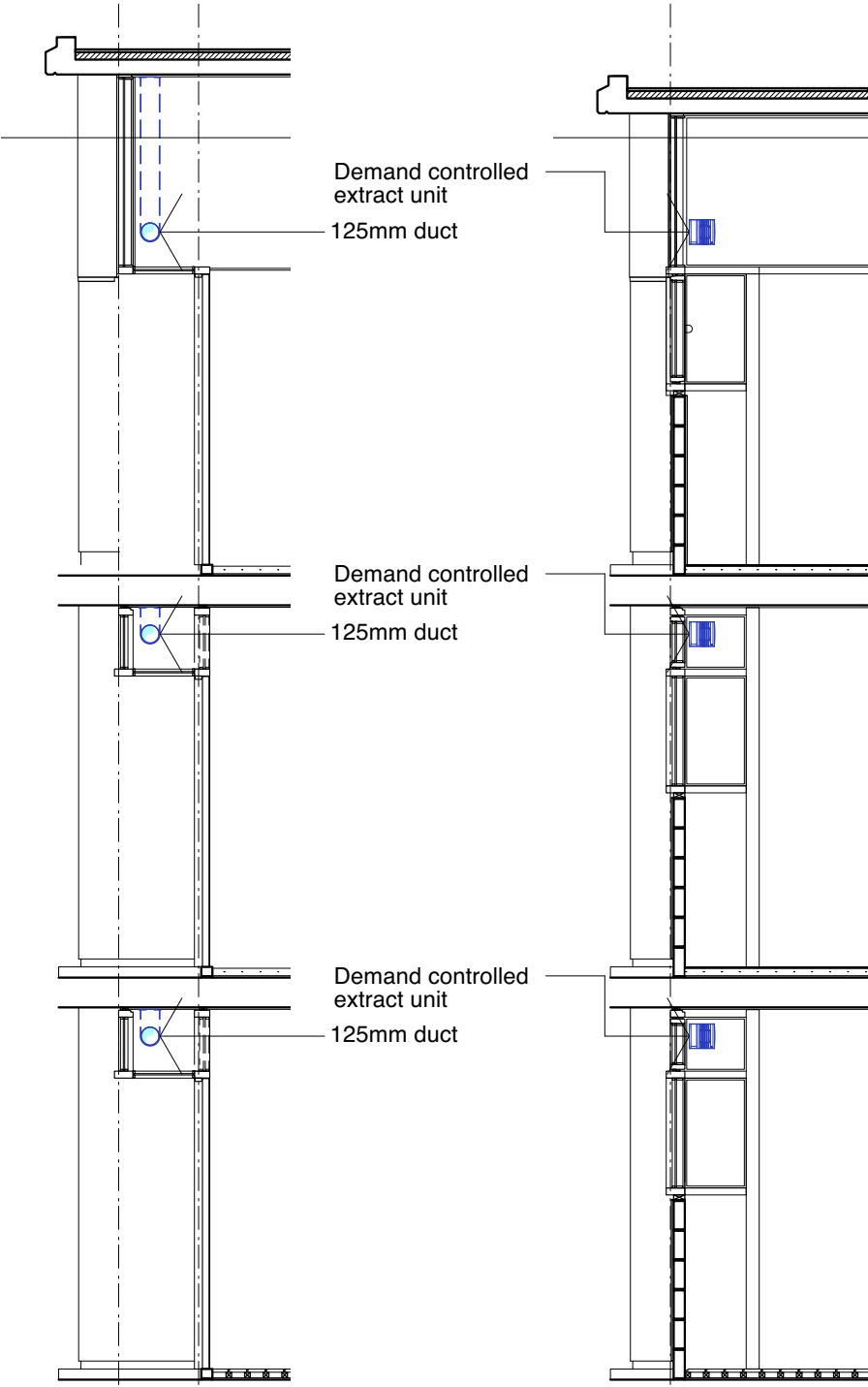
Operation:
The demand controlled extract units (see below) mounted in the kitchen & bathroom provide a constant background level of ventilation to the home. The openings in the extract grilles increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to it original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

New **demand controlled extract unit** installed in kitchen and bathroom wall. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.



Section A-A



Section B-B

Section C-C

Ventilation System 05

revisions	
1	First Issue
2	Minor updates.

07/09/2023
20/10/2023

Dependent on air flow rates achived in home, kitchen, bathroom and living door may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

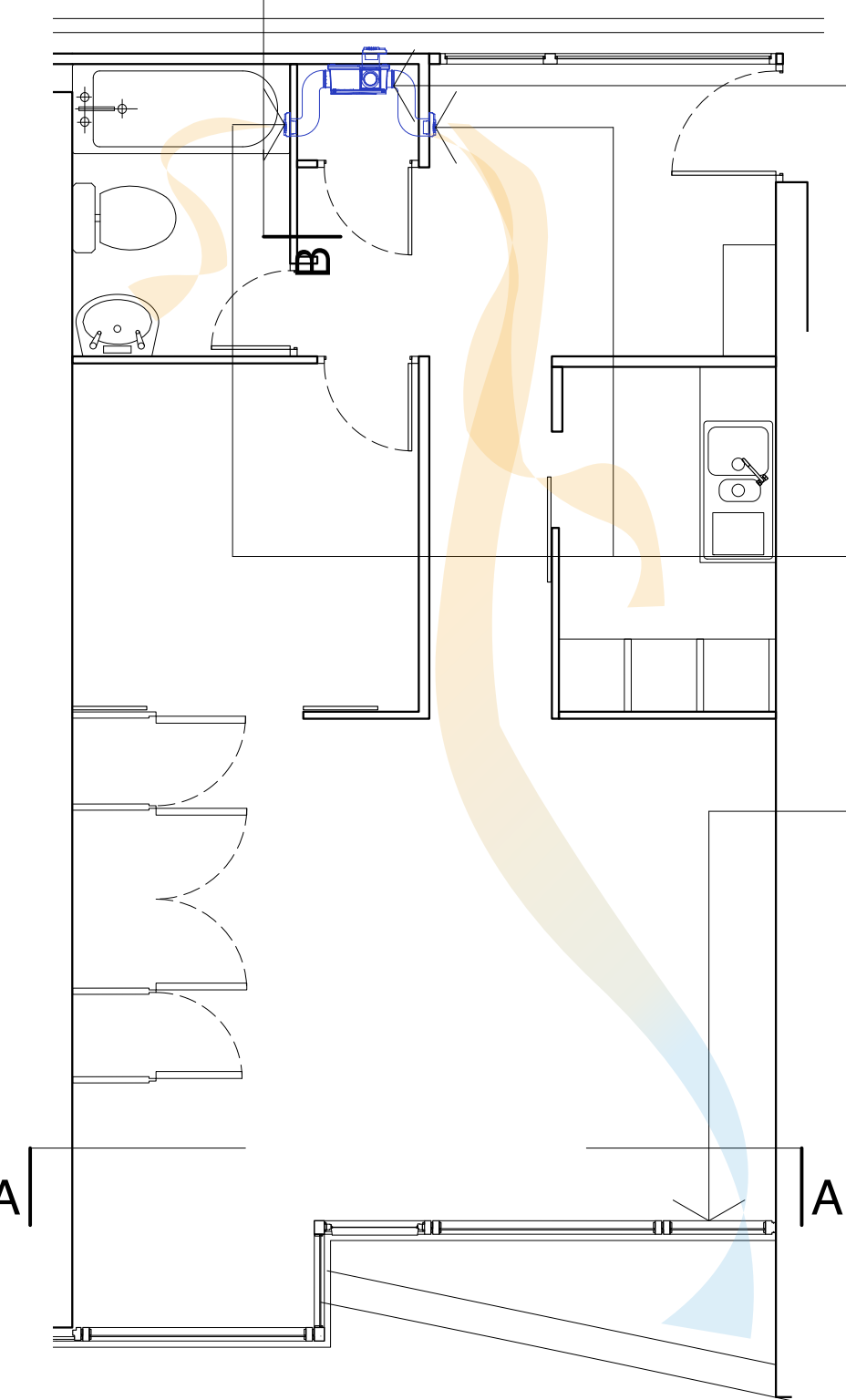
drawing title	Ventilation System 05
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-923
rev. 2	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-923-VentSystem05.vwx
sp project number	2450



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Demand Controlled Ventilation
System 05A



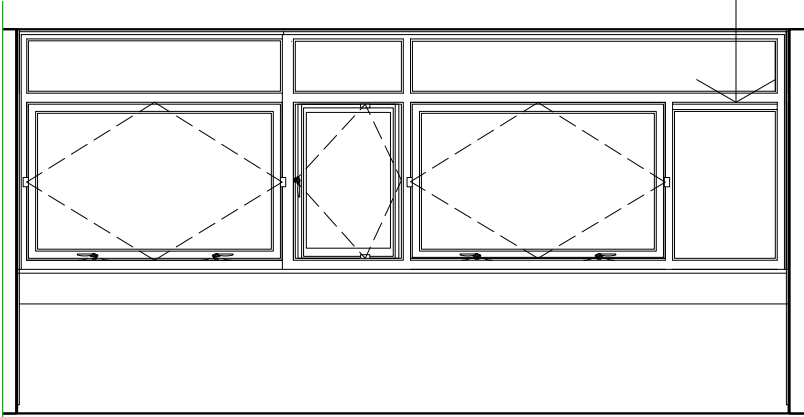
Flat Plan

New **acoustic constant pressure fan**, at highlevel in service cupboard.
Single extract grille mounted at high-level on external wall.
Ductwork connection from fan to demand controlled air inlets within service cupboard and at highlevel over front entrance fan light.

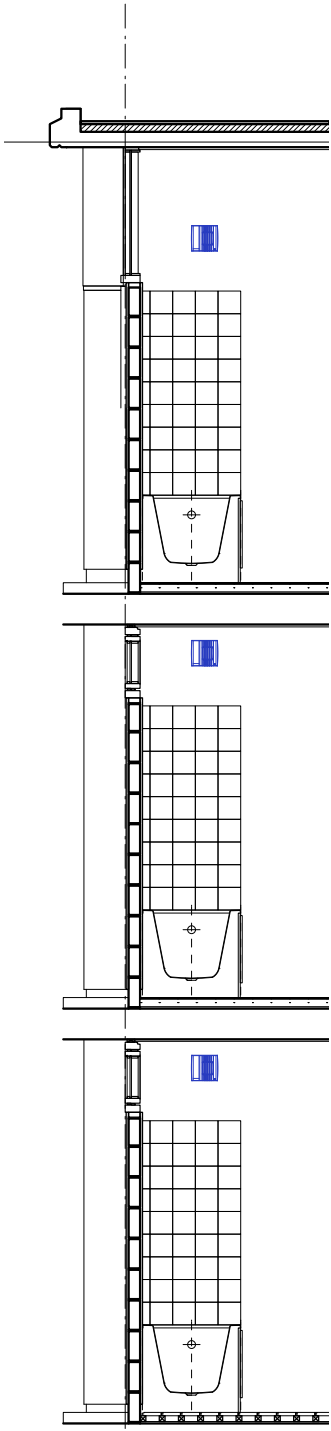
Operation:
The demand controlled extract unit (see below) mounted in the kitchen & bathroom provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to it original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

New **demand controlled extract unit** installed in kitchen and bathroom wall. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.



Section A-A



Section B-B

Section C-C

Ventilation System 05A

revisions	
1	First Issue
	20/10/2023

Dependent on air flow rates achived in home, kitchen, may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

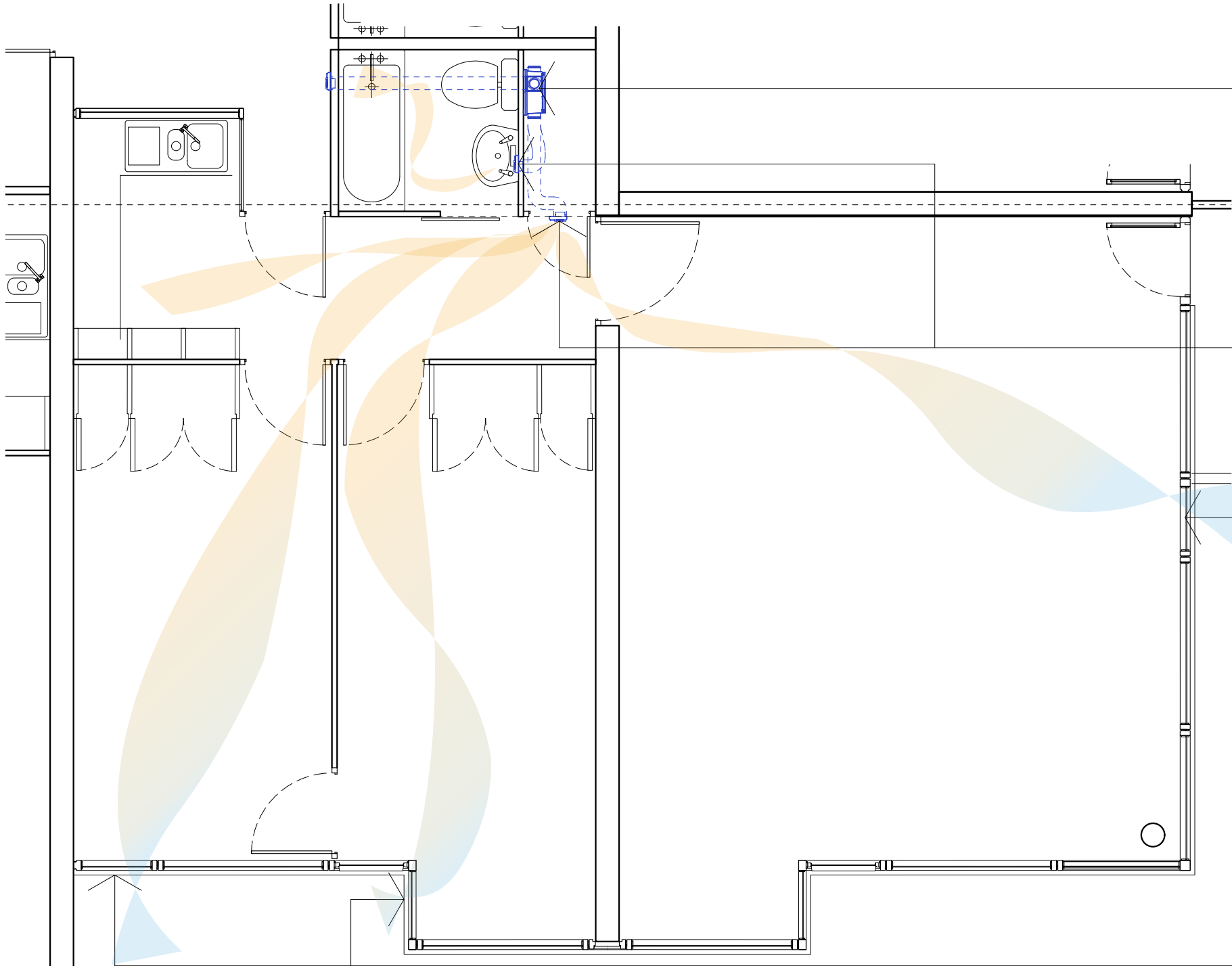
drawing title	Ventilation System 05A
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-924
rev. 1	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-924-VentSystem05A.vwx
sp project number	2450



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Demand Controlled Ventilation
System 05B



New **acoustic constant pressure fan** at highlevel in service cupboard.
Single extract grille mounted in new fixed panel within bathroom window - most homes already have a similar configuration with a local Vent Axia fan mounted in this location.
Ductwork connection from fan to demand controlled air inlets within service cupboard and at highlevel over bathroom.

Operation:
The demand controlled extract unit (see below) mounted in the bathroom provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to it original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

New **demand controlled extract unit** installed in bathroom wall and over services cupboard door. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.

Flat Plan

Section A-A

Ventilation System 05B

revisions	
1	First Issue
20/10/2023	

Dependent on air flow rates achived in home, bedroom and living door may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

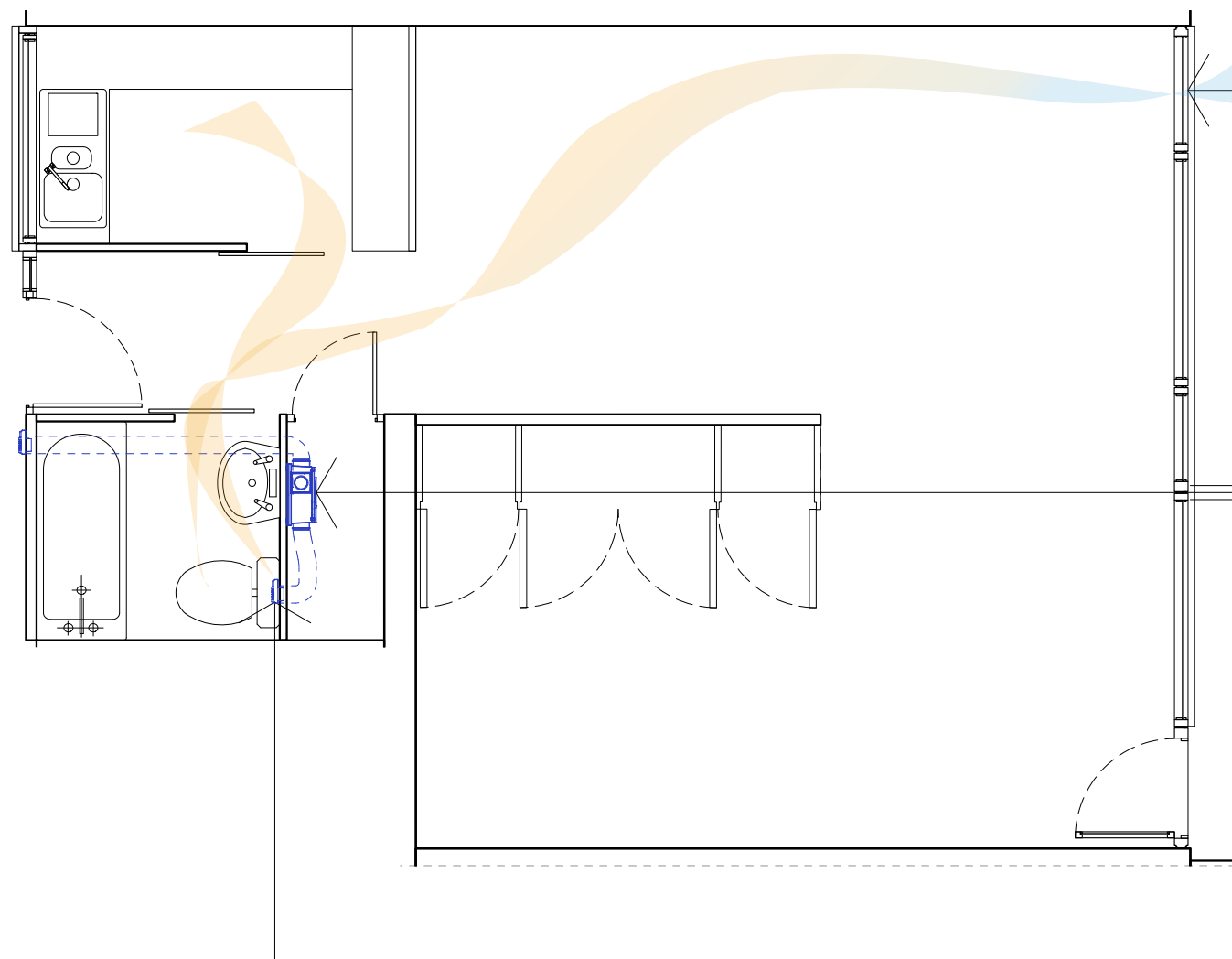
drawing title	Ventilation System 05B
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-925
rev. 1	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-925-VentSystem05B.vwx
sp project number	2450



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Demand Controlled Ventilation
System 05C



New **demand controlled air inlet** concealed in sapele head section, providing fresh incoming air.
The air inlet works in a similar way to the demand controlled extract unit, increasing air flow as moisture increases and reducing as moisture decreases.

New **acoustic constant pressure fan** at highlevel in service cupboard.
Single extract grille mounted in new fixed panel within bathroom window - most homes already have a similar configuration with a local Vent Axia fan mounted in this location. Ducted connection from extract grille to fan at high level in bathroom.

Operation:
The demand controlled extract unit (see below) mounted in the bathroom provides a constant background level of ventilation to the home. The openings in the extract grille increase in size if humidity levels in the home increase (for example when cooking, bathing or showering). As the extract unit opens, the fan detects a drop in pressure and increases the extract rate to remove moist air from the home. As the humidity level drops, the extract unit returns to it original state. The fan detects an increase in pressure and returns to its original low level of background ventilation.

New **demand controlled extract unit** installed in bathroom. The extract unit is entirely passive and does not require any form of power. The unit has a background setting which allows a low level of air to be constantly extracted from the home. A moisture sensitive material in the unit absorbs moisture in the air and increases the ventilation opening in the unit.

Flat Plan

Ventilation System 05C

revisions		
1	First Issue	20/10/2023

Dependent on air flow rates achived in home, kitchen and bathroom door may require 5-10mm undercut

date issued	07/09/2023
purpose of issue	Information
issued by	CD
checked by	CD

drawing title	Ventilation System 05C
scale	1:100 @ A1
scale reduced	1:200 @ A3
drawing number	2450-10-ZZ-DR-10-926
rev. 1	status P1

project name	Crescent House
client	City Of London
sp file name	2450-10-ZZ-DR-10-926-VentSystem05C.vwx
sp project number	2450



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