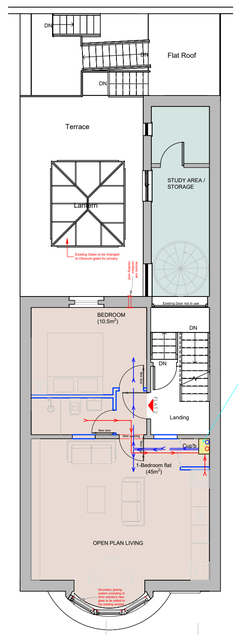
VENTILATION STRATEGY

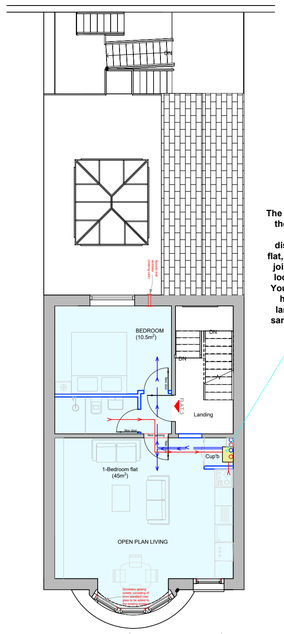
SCALE 1:100

FIRST FLOOR



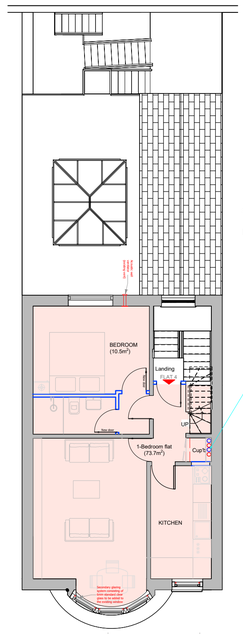
For the first-floor flat, the MVHR unit can sit in a cupboard within the flat. Short internal ducts would run between the joists to the bedroom/living space for supply air and to the kitchen/bathroom for extract. The two external-air ducts—fresh-air intake and exhaust—would then enter the vertical riser beside the stair and rise all the way to the loft.

SECOND FLOOR



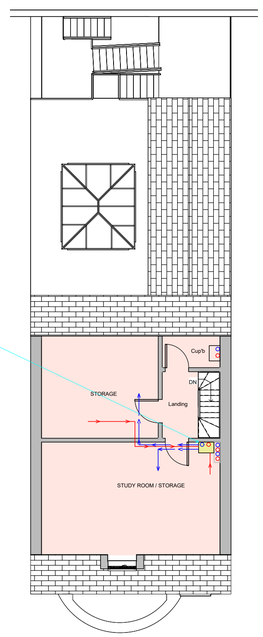
The second-floor flat would work the same way: its own MVHR unit within the flat, short distribution ducts within that flat, and its intake/exhaust ducts joining the same service-riser location beside the staircase. Your second-floor plan already has a cupboard beside the landing in approximately the same position as the first-floor cupboard.

THIRD FLOOR



For the third-floor flat, because the loft belongs to that flat, its MVHR unit could be located directly in the loft. Its room supply/extract ducts would drop a relatively short distance from the loft into the third-floor rooms. The first- and second-floor intake/exhaust ducts would simply pass through the cupboard/service zone at third-floor level and continue into the loft. The third-floor and loft plans show the cupboard/landing arrangement continuing vertically.

FOURTH FLOOR



Once all the external-air ducts reach the loft, they can run horizontally within the loft, following the roof structure, to discreet terminals on the rear roof slope.

VENTILATION STRATEGY

1. Mechanical ventilation with heat recovery (MVHR) is provided to flats in the 1st, 2nd and third floor

2. Each flat has an independent MVHR system.

3. Intake and exhaust ductwork from 1st and 2nd floor flats rises within the indicative ventilation riser (500mm x 400mm) within the cupboard zone beside the stair.

4. The third floor (Flat 4) MVHR unit is located within the storage room in the fourth floor.

5. Ductwork is routed within the loft to discret roof level terminals on the roof slope.

6. No new ventilation openings are proposed on the front elevations.

Mechanical ventilation riser

MVHR Unit

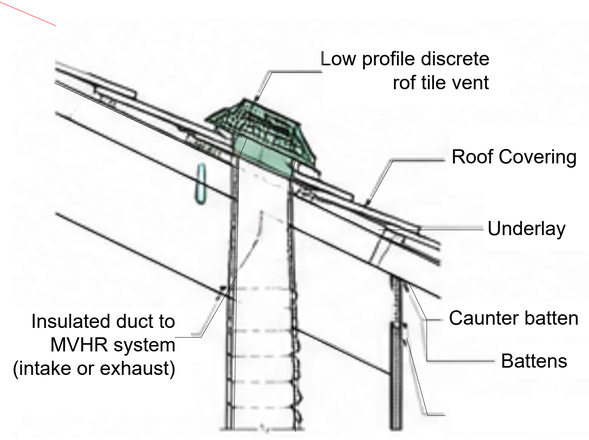
Supply Air Duct (from MVHR)

Extract Air Duct (to MVHR)

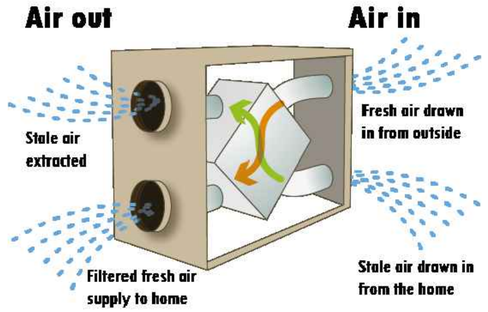


ion B-B

ROOF TERMINAL DETAIL (PITCHED ROOF)



SCHEMATIC MVHR UNIT DETAIL



NOTES:

Plans drawn are indicative. Plans are not created with accurate surveying equipment and methods, it is therefore likely that discrepancies in dimension may be discovered. Check all dimensions on site before any work commences. All goods, material and workmanship must conform to current building regulations, British standards and codes of practice.
Do not scale off this drawing except for planning purposes. Drawing to be printed in A1.

1.

PROJECT:	11 MONTAGUE PLACE - WORTHING - BN11 3BG
CLIENT:	CONNAUGHT HOUSE (MARINE PARADE) LIMITED
DESIGN:	JONIDA MURATAJ
TITLE:	MECHANICAL VENTILATION STRATEGY & DETAILS
28.08.2020	SCALE: @ A1
	STATUS: FULL APPLICATION
	REV: A
	DRAWING NO: A-20