NHS
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New Park House Development Planning Ventilation Statement

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PARK HOUSE AMHU
PLANNING VENTILATION STATEMENT

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Prepared by	**Tony O'Connell**
Checked by	**Mason Cheung**
Approved by	**Tony O'Connell**
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Ramboll
Arkwright House
Parsonage Gardens
Manchester M3 2LF
United Kingdom

T +44 161 827 1890
https://uk.ramboll.com

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01	14/09/2020				Draft issue for comment
02	25/09/2020				Updated to reflect current building layout

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Ramboll UK Limited
Registered in England & Wales
Company No: 03659970
Registered office:
240 Blackfriars Road
London
SE1 8NW

CONTENTS

1.	**Introduction**	**2**
2.	**Ventilation strategy**	**3**
3.	**Natural Ventilation**	**3**
4.	**Mechanical Ventilation**	**3**
5.	**Kitchen Ventilation**	**4**
6.	**Plant Areas**	**4**
Appendix A - Ventilation Plant Locations		**5**

1. INTRODUCTION

This Ventilation Statement has been prepared by Ramboll to support the planning application in relation to the New Park House Development located on the North Manchester General Hospital Site in Crumpsall.

The development involves the construction of a new 150 bed Mental Health Hospital on the southern area of the North Manchester General Hospital Site, bounded by Eyam road, Crescent road, and Central drive.

2. VENTILATION STRATEGY

The New Park House Development will be provided with ventilation in accordance with Part F of the Building Regulations.

The preferred method of providing ventilation to this new development would be via Natural Ventilation wherever possible and/or practical.

However due to the arrangement, nature and use of the building, there will be spaces where natural ventilation is not possible and/or practical so mechanical ventilation will be provided to these spaces as required. We anticipate that mechanical ventilation will be required to the following general spaces

i. Spaces where mechanical ventilation is required to remove odours or vitiated air, i.e. toilets, bathrooms, kitchens, cleaners' rooms etc. Where mechanical ventilation is provided to these spaces it will be achieved via mechanical extract with replacement make-up air being drawn from adjacent spaces via door transfer or infiltration. Where appropriate, mechanical make up air will be provided to adjacent spaces.

ii. Spaces where natural ventilation is not appropriate for clinical reasons, i.e. Treatment Rooms. Such clinical spaces will be provided with supply and extract ventilation to the appropriate standards

iii. Spaces where natural ventilation is not appropriate for privacy, dignity or confidentiality reasons, i.e. Tribunal Rooms, Ward Managers Offices, Staff Rest Areas, Meeting Rooms etc. Such spaces will be provided with supply and extract ventilation to the appropriate standards.

iv. Spaces where natural ventilation cannot be provided to prevent solar overheating in accordance with Building Regulations Part L. Such spaces will be provided with mechanical supply and extract ventilation and, where necessary, comfort cooling.

This strategy is driven primarily by a requirement for strong domestic feel to the building, to enable users to have some control over their own environment and to reduce energy consumption.

3. NATURAL VENTILATION

Where natural ventilation is provided within the building, it will be achieved via openable windows that will be designed to achieve the required natural ventilation.

4. MECHANICAL VENTILATION

Mechanical ventilation will be provided to each block using local air handling units. Air handling units will be located in the locations shown on the plan layout in Appendix A. Air inlets for air handling units will be located away from sources of pollution and each air handling unit will incorporate filtration ePM2.5 μ 50% in accordance with ISO 16890, to maintain good quality of the supply air being provided.

5. KITCHEN VENTILATION

The main kitchen, located within the facilities department, does not provide full commercial catering and will be a regeneration kitchen in operation. This main kitchen will be provided with supply and extract ventilation via a dedicated air handling unit.

This kitchen supply and extract air handling plant will be located on the flat roof area above the kitchen with the exhaust air discharged at the roof level.

The air inlet for this air handling unit will be located away from sources of pollution and will incorporate filtration ePM2.5 μ 50% in accordance with ISO 16890, to maintain good quality of the supply air being provided.

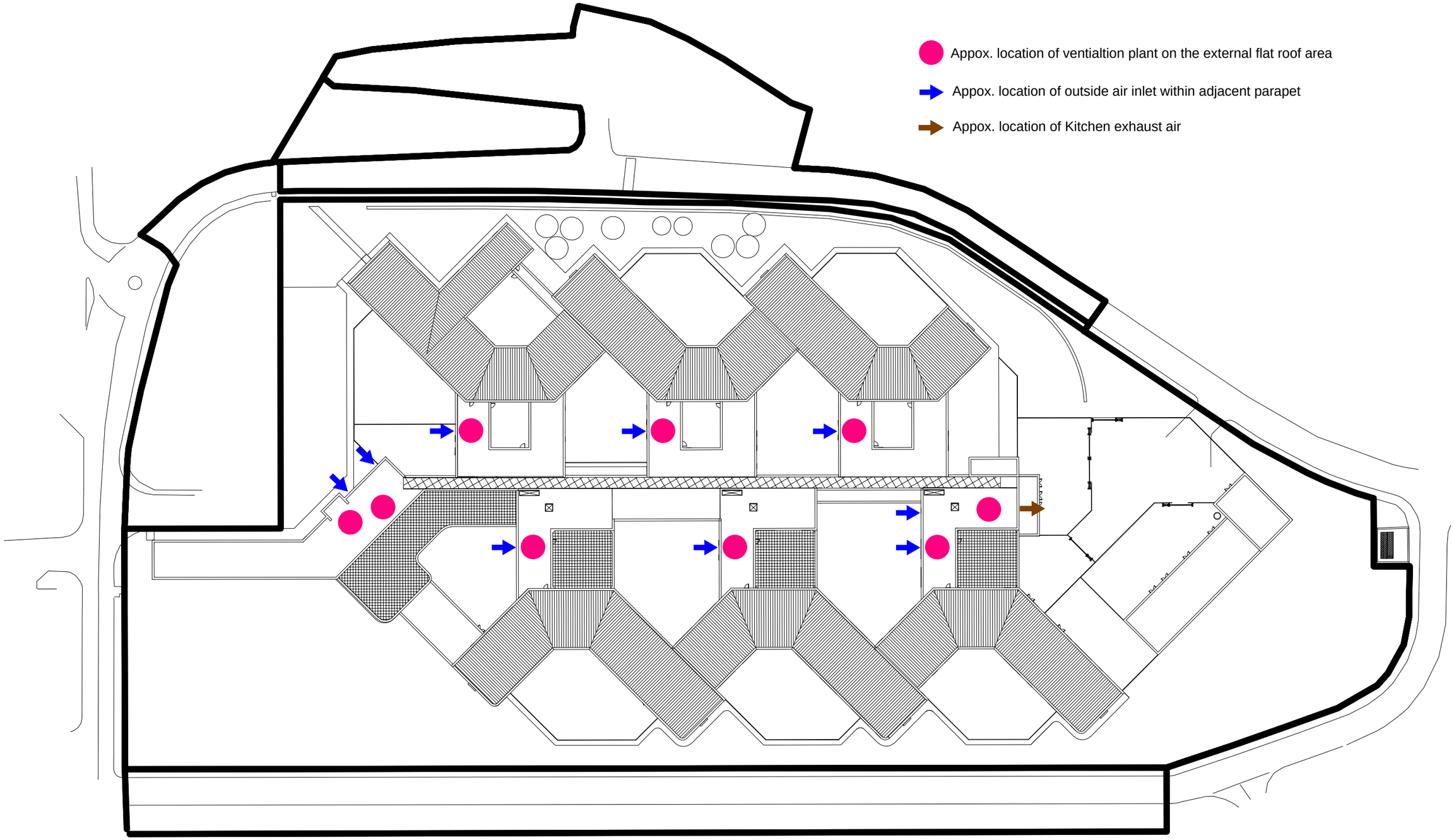
The kitchen canopy will incorporate baffle grease filtration and UV filtration.

Exhaust air from the kitchen will be discharged via a louvre above the main service yard as shown on the drawing in Appendix A

6. PLANT AREAS

Plant spaces and unoccupied spaces will be provided with natural ventilation via wall louvres or louvred door sections as appropriate.

APPENDIX A - VENTILATION PLANT LOCATIONS



Rev	Description	Date	By / Chk	App
P02	Updated to current building layout	25/9	AOC / MC	AOC
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tel 0161 827 1890 fax 0161 819 5703 manchester@ramboll.co.uk
www.ramboll.co.uk

New Park House Development

External Ventilation Plant Locations

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1620009409	NTS	AOC	14/9/2020

Drawing No:	Rev:
NMGNPH-RAM-VV-XX-DR-M-5700	P02