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Ventilation and Extraction Statement

Tech Hub
REEC Twickenham

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CONTENTS

	Page No.
1.0 INTRODUCTION	1
1.1 Description of development	1
2.0 VENTILATION	2
2.1 Office Ventilation	2
2.2 Ground Floor Showers and WC Extract.....	2
2.3 Smoke Extract	2
2.4 First Floor WC Extract.....	2
3.0 CONCLUSION	3

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1.0 INTRODUCTION

Hurley Palmer Flatt have been instructed by Haymarket Media Group to prepare a Ventilation and Extraction Statement for its Tech Hub development and to comply with Outline Planning Application condition no. U07894 of the REEC Twickenham site. This Ventilation and Extraction Statement comments on the key considerations associated with the scheme which has been submitted for approval.

1.1 Description of development

New-build two storey commercial office building.

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2.0 VENTILATION

2.1 Office Ventilation

The ground and first floor office areas will be provided with fresh air from a dedicated centralised air handling unit (AHU) located on the western side of the building roof. Vitiated air will be extracted by the same AHU. Intake and exhaust for the AHU will be local to the AHU at roof level.

The Office AHU will be provided with attenuation on both intake and discharge in order to reduce any noise reverberation within the ductwork and to prevent any noise breakout to the local environment.

2.2 Ground Floor Showers and WC Extract

Air extracted from the ground floor unisex WC and showers will be extracted to a dedicated twin motor toilet extract fan and then exhausted at high level ground floor via a louvre located on the western façade of the building. Make-up air will be provided by the Office AHU via dedicated supply air terminals within the space.

Space shall be allowed for attenuation on intake and discharge sides of the extract fan if required to meet the acoustic breakout requirements of the site.

2.3 Smoke Extract

There is no dedicated mechanical or natural ventilation smoke extract system exhaust.

2.4 First Floor WC Extract

Air extracted from the first floor unisex WC will be extracted to a dedicated twin motor toilet extract fan and then exhausted at high level first floor via a louvre located on the western façade of the building. Make-up air will be provided by the Office AHU via dedicated supply air terminals within the space.

Space shall be allowed for attenuation on intake and exhaust sides of the extract fan if required to meet the acoustic breakout requirements of the site.

2.5 Kitchen Extract Ventilation

There is no commercial kitchen planned for the site.

3.0 CONCLUSION

The ventilation and extraction strategy for the development places the main fresh air intake on the building rooftop away from any source of pollution or general air exhaust locations. Potential odours from the WCs are exhausted at high level on the western side of the building away from the air intake for the office and any other occupied zones.

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