

Cheadle Market

Ventilation & Extraction Statement

June 2026

PREPARED FOR

Staffordshire Moorlands District Council



Ventilation & Extraction Statement

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A – Proposed Ventilation Layouts

1. Introduction

This Ventilation & Extraction Statement has been produced on behalf of Stride Treglown for Staffordshire Moorlands District Council in support of the planning application for the rejuvenation of Cheadle Market, Cheadle, Stoke-on-Trent, ST10 1AF.

2. Design Criteria

Table 1. Ventilation Rates

Zone	Flow Rate
Seating Area	10 l/s/person
Toilet	6 air changes per hour
Bin Store	10 air changes per hour
Unit 01, 02 (retail)	10 l/s/person
Unit 03-06 (F&B)* ¹	40 air changes per hour
Unit 07-10	Natural
General Store	6 air changes* ²

1 – Subject to final kitchen occupier spec.

2 – Where storing cleaning equipment or similar materials.

3. Acoustic Requirements

All ventilation systems within the development will comply with the acoustic requirements defined by the project acoustic consultant. Air handling plant will be provided with attenuation to achieve the required insertion losses, as defined by the acoustic consultant. Attenuators serving kitchen extract fans will be specified with removable splitters for cleaning in line with the requirements of DW/172. These attenuators will also be specified with infill Melinex wrap for grease protection.

4. Filtration and Odour Mitigation

Filtration and odour management from the kitchen extracts will be handled local to the kitchen canopies through integral and bolt on filters appropriate filtration will be provided to suit the cooking activities, including grease and UV filters. Air shall then be exhausted via jet cowls mounted on the roof. An odour assessment in line with EMAQ+ guidance during the next stage once more detail is known on the fit out and potential tenants for the F&B units.

Air handling plant serving general areas will be provided with minimum F7 filters to ensure good air quality is maintained.

5. Ventilation Strategy

5.1. Seating Area

The seating area will be provided with mechanical ventilation by means of MVHRs. These will supply and extract air from the seating area through louvres sized with adequate throw and a bellmouth, respectively. These systems' intake and exhaust to atmosphere will be via weatherproof roof cowls fit with bird mesh.

5.2. Retail Units

The retail units within the market hall will be provided with mechanical ventilation by means of an MVHR. This will extract and supply air to its respective unit. The system's intake and exhaust to atmosphere will be via weatherproof roof cowls fit with bird mesh.

5.3. Food and Beverage Units

The F&B units will be provided with mechanical ventilation by means of a dedicated extract fans linked to the kitchen canopies. The kitchen canopies and associated bolt on equipment will incorporate filtration as required to comply with EMAQ+, including grease and UV filters. The extract fans will be situated on the roof and connected to attenuators with removable splitters and infill Melinex wrap. These will allow for cleaning and grease protection respectively for compliance with DW/172. Exhaust to atmosphere will be via high velocity jet cowls to discharge the air vertically. Make up air to the F&B units will be via roof cowls local to the space so make up air is not drawn from the dining area and to restrict the spread of odours into the rest of the market hall.

5.4. Toilets

The toilets located to the rear of the market hall shall be provided with mechanical ventilation by means of an MVHR. This will extract directly from the cubicles and supply to the circulation area adjacent. The toilets will be under negative pressure to restrict the spread of odours into the rest of the market hall. This system's intake and exhaust to atmosphere will be via weatherproof louvres at the rear of the market hall situated on the wall at high level.

5.5. Bin Store

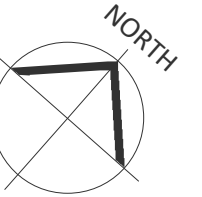
The bin stores will be provided with mechanical ventilation by means of extract fans. These will extract from within the bin store, make up air will be by fully louvred doors. The system's exhaust to atmosphere will be via a weatherproof cowl mounted fit with bird mesh on the roof of the bin store.

5.6. General Store

The internal general store will be provided with mechanical ventilation by means of an MVHR. This will extract from within the store and supply fresh air to the circulation area adjacent. This system's intake and exhaust to atmosphere will be via weatherproof louvres at the rear of the market hall.

Appendix A

Proposed Ventilation Layouts



- ☐ Ancillary
- ☐ Food & Beverage
- ☐ Foodhall
- ☐ Produce
- ☐ Retail Units

P19	26/06/26	Full Planning (DRAFT)
S2	18/06/26	Frozen GA Plan
P16	12/06/26	Revised Plan
S2	18/05/26	Acoustic & Fire Updates
S2	27/03/26	Dish wash added
S2	25/03/26	Updates
S2	17/02/26	Issue for Planning Pre-Application

REV	DATE	DESCRIPTION
REMOVED		

Saffordshire Moorlands District

AG

Checked by

MW

Originator No

156967

CONSULTANT

STRIDE TREGLOWN

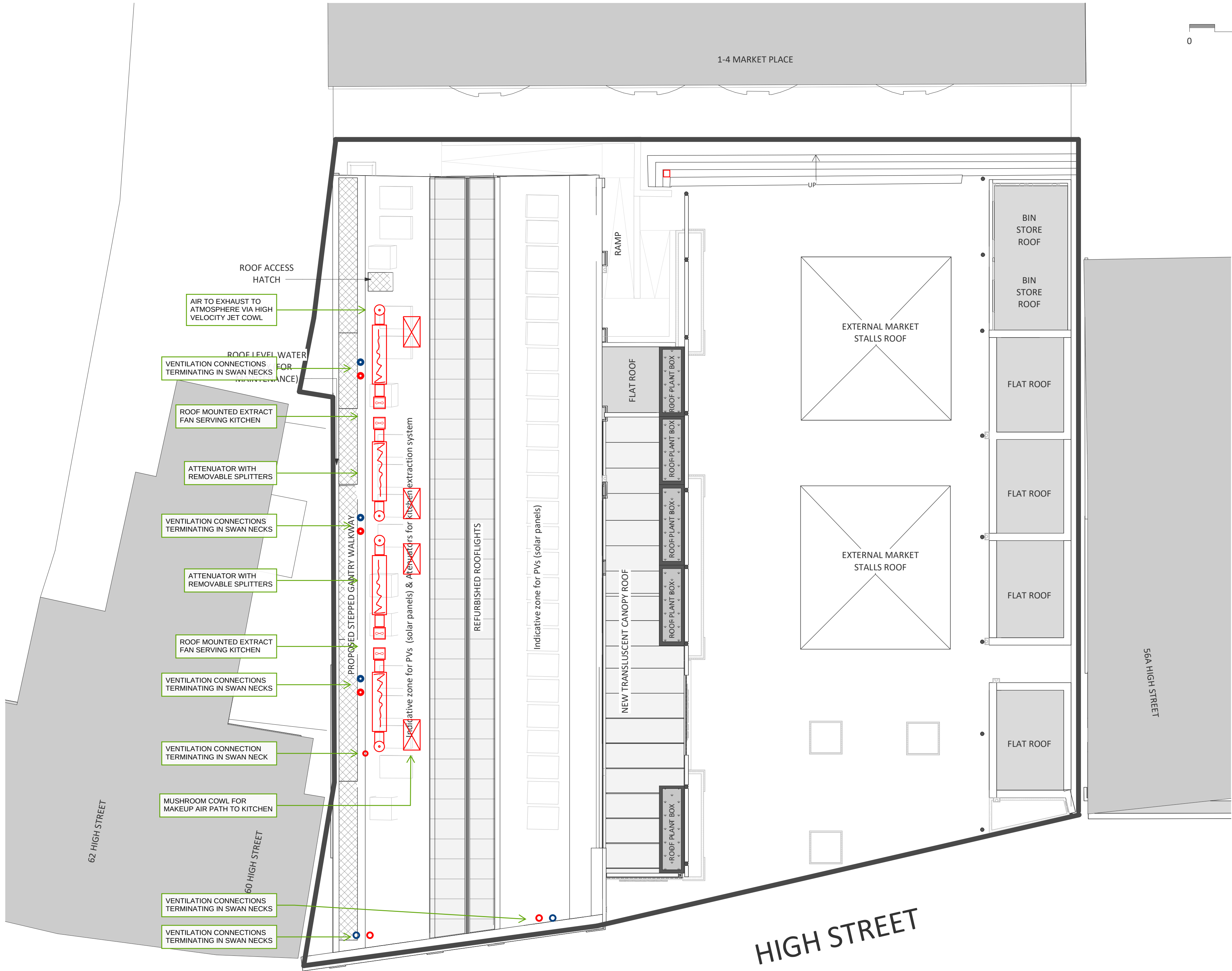
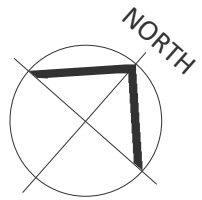
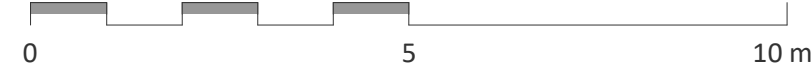
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High St, Cheadle, Stoke-on-Trent ST10 1AF,
K

DRAWING TITLE

Dwelling - Proposed Floor Plan

STABILITY STATUS		SCALE
L : PLANNING		1 : 100 @A2
PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER	STATUS_REVISION_CLASS.	
56967-STL-XX-00-DR-A-01000	PL P19_ZZ	



PL	P19	26/06/26	Full Planning (DRAFT)
S2	P11	25/03/26	Updates
S2	P07	17/02/26	Issue for Planning Pre-Application
STATUS	REV	DATE	DESCRIPTION

CLIENT	STAFFORDSHIRE MOORLANDS DISTRICT COUNCIL	REVISED BY	AG
CHECKED BY	MW	ORIGINATOR NO	156967

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PROJECT
Cheadle Market
8 High St, Cheadle, Stoke-on-Trent ST10 1AF, UK

DRAWING TITLE
Planning - Proposed Roof Plan

SUITABILITY STATUS	SCALE
PL : PLANNING	1 : 100 @A2

PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER	STATUS_REVISION_CLASS
156967-STL-XX-00-DR-A-01003	PL_P19

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