SWAN Projects
38 Stanway Road
Whitefield
MANCHESTER
M45 8FX

15th January 2016

Paul Astill & Associates

Re-Beat Street, Manchester, Ventilation System Description

It is proposed to install kitchen extract ventilation, and toilet extract ventilation to several of the units, which will form 'Beat Street' as shown on our drawing numbers P0216/1 /2 and /3.
The building is listed, so the mechanical installation will, as far as possible, be sympathetic to the listed status, and a basic description, as follows, is issued to complement the drawings.

Toilet Extract Ventilation
This would be based on 15 – 20 air changes per hour, and would be confined to the toilets on level 3, beneath units 'N' and unit 'D'.
Extract ductwork would be installed at high level, on Level 3, with fire dampers and access doors at each compartmental wall, and in the floor slab, where each duct rises to Level 4.
The ductwork would be circular, and uninsulated, and would incorporate an extract air valve, at each toilet cubicle and urinal location.
When the ductwork rises through the floor slab to Level 4, it will be positioned in the corner of the room, adjacent to a doorway which has been sealed with 'blockwork' and as such will be next to an 'unlisted' part of the structure.
The ductwork and fan would be 'boxed in' with access to the fan for maintenance.
The ductwork would then rise to high level and exit the roof, and terminate with a 'low profile' discharge cowl, which would not be visible from the public area of Level 4, due to the parapet wall, as shown on Section A-A on the Level 4 drawing.

Kitchen Extract Ventilation System
The kitchen cooking area extract ventilation system, would be design in accordance with the DEFRA guidelines for Class B cooking, and would be manufactured and installed in accordance with the HVCA DW172 specification for commercial kitchens.

Each cooking area would be equipped with 2 x 2m x 1.2m stainless steel canopies, with integral, stainless steel standard baffle type grease filters.
All extract ductwork would be 2 hour fire rated. Ductwork would not pass through any existing 'listed' brickwork, but would pass from one unit to the next, either through the partition that has recently been added as a dividing wall (between unit F and unit G) or through a hole formed by removing 'blockwork' that has recently been introduced, (between unit G and unit H)
All canopies would be individually supported from the floor, via purpose built frame/legs.
Wherever possible, the fire rated ductwork would also be supported from the floor, or from sections of non-original brick wall, or from the room purlins, in such a way that permanent alteration would not be necessary, and if/when ductwork is removed, then evidence of the support will not be evident.

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The extract ventilation equipment, mainly comprising of a fan with fore/aft sound attenuators, would be supported, utilizing a full range of ancillaries, with anti-vibration mountings and flexible connections, ensuring that no noise or vibration can be transmitted through the structure, due to the complete isolation of the plant.
The equipment supports would utilize the existing roof purlins in such a way that permanent alteration would not be necessary, and if/when ventilation equipment is removed, then evidence of the support will not be evident.
The ductwork will pass through the roof section as shown, using a roof curb and weather cravat arrangement, and the discharge duct would be adjacent to the existing brick wall, (between units M & N and between units G & H).
The discharge stack would be covered with a vinyl wrap, which would be the reproduction of the existing brickwork, accurate in size and colouration of the brickwork, to the effect that the vertical discharge stack will 'blend in' with the existing, adjacent brickwork.
The vertical discharge of the kitchen extract ductwork, is the preferred option, as this will provide effective extract ventilation, with minimal possibility of fume/odour issues, to the public area of Level 4.

Geoff Kennedy
for
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