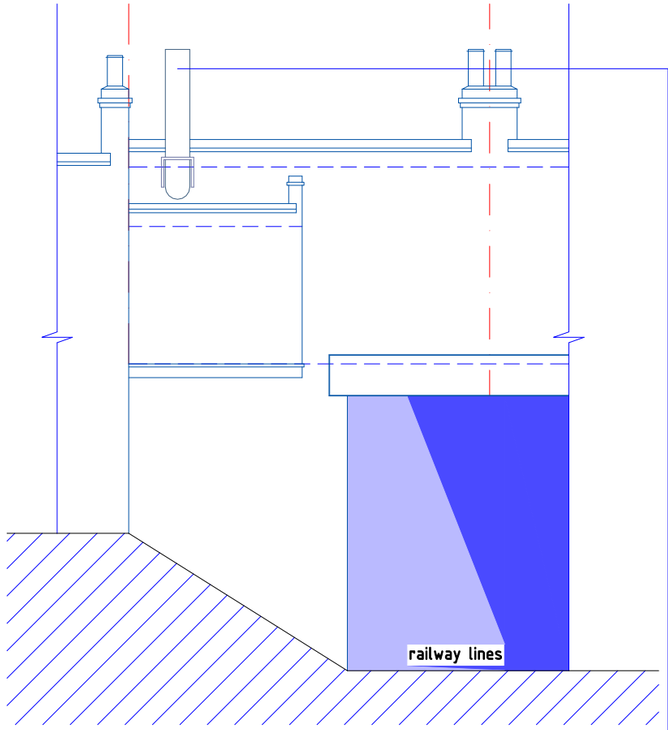
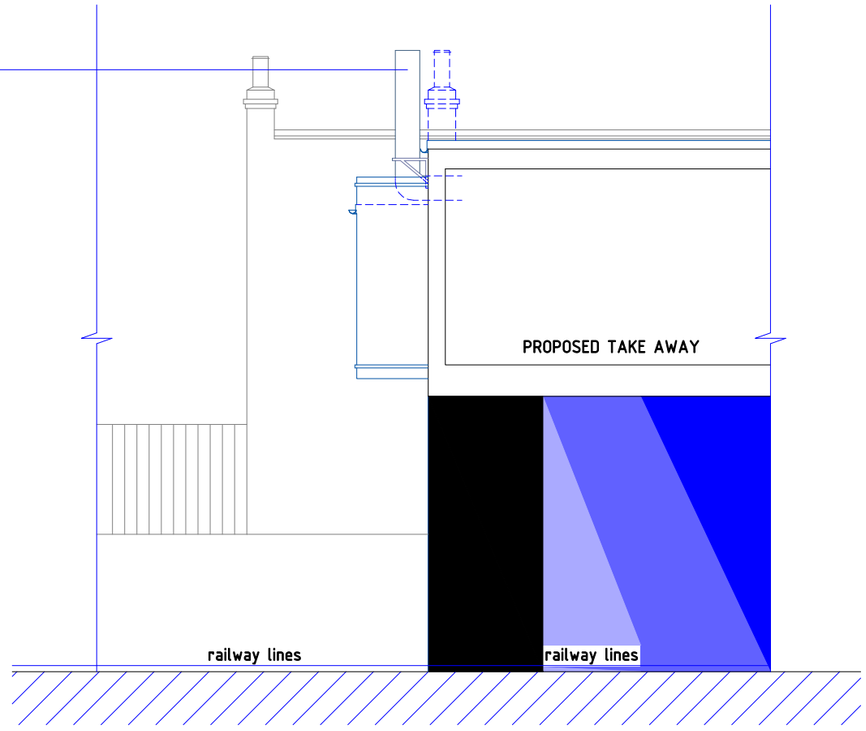


PROPOSED REAR ELEVATION



PROPOSED SIDE ELEVATION [CROSS SECTION]

EXTRACT SYSTEM DETAILS

1. **EXTRACT CANOPY**

   S/S (304 grade) canopy 4000x1100mm above cooking units with 5 no. removable and washable grease filters 495x495x50mm. (Filters must be washed 2 - 3 times a week).

2. **PRE - FILTER**

   2 No. AB20 high capacity ACT G4 bag disposable filters 592x592x356mm @ 1.08m³/s air volume per unit, totalling 2.16m³/s @ 25 Pa. (Filter elements to be replaced every 4 weeks).

3. **CARBON FILTER UNIT**

   2 No. ACD extra duty 207C activated carbon filter units 597x597x597mm @ 80 kg per unit with 12 disposable chemically bonded carbon panels permanently sealed with a galvanised steel casing. Air volume of each unit would be 1.06m³/s totaling 2.12m³/s with total air resistance of 60Pa and a dwell time of 0.24 seconds - secured to structure sitting on anti-vibration mountings. (Panels to be replaced every 9-12 months)

4. **Flexible canvas connectors**

5. **SILENCERS/ATTENUATORS**

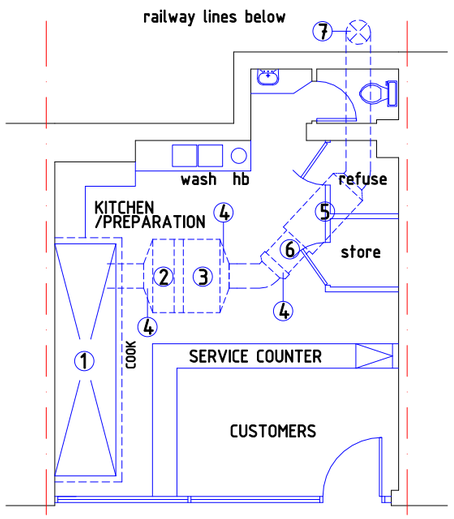
   2 No. 653mm Ø x 600mm high performance silencers (with 1DEP - cylindrical centrebody for enhanced attenuation) connected directly to fan casing on the outlet side and connected to ducting with flexible canvas connectors, giving a sound reduction level of 14dB (A) for each unit @ 3 meters - reducing the the fan noise level to 34dB - secured to structure sitting on the stand with anti-vibration mountings.

6. **FAN UNIT**

   A high pressure 500mm Ø Elta axial fan unit SCPP500/4-1 with sound level of 62 dB (A) @ 3 meters without attenuation. Speed regulator rating is at 1350 rpm with 2.01m³/s air flow rate @ 250 Static Pressure Pa giving efflux velocity at the flue terminal of 10.25m/s (to give 35 + air changes in the kitchen) - secured to the structure sitting on the stand with anti-vibration mountings and insulated - connected directly to the silencers.

7. **DUCTING**

   Galvanised steel ducting (18swg) 400mm x 400mm of nominal cross sectional area discharging vertically and terminating at least 1.0 metre above eaves level with high velocity discharging nozzle @ maximum diameter of 400mm - secured to the structure with duct support brackets with anti-vibration mountings.



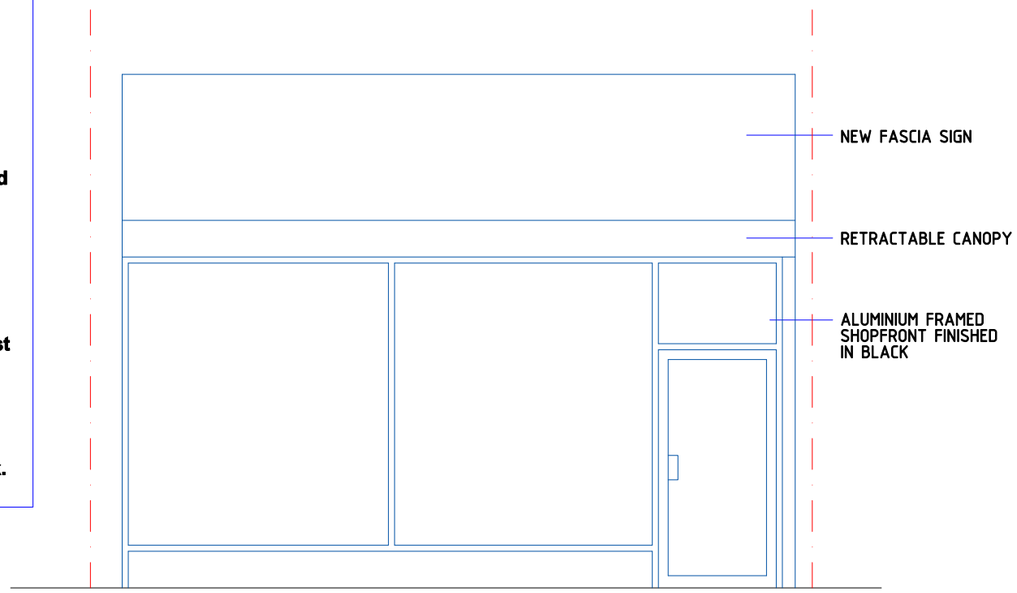
PROPOSED GROUND FLOOR PLAN

The part of the ducting running from the building exit point to the roof eaves will be wrapped in 30mm thick mineral wool with minimum density of 35kg/m³ to be held in place with light metal mesh, and metal or plastic strapping bands.

The mineral wool insulation would be lagged with a membrane of flexible sound barrier matting with a surface weight of 10kg/m² and nominal thickness of 4mm (in black) to be applied around the duct with overlapped/sealed joints to be held in place in accordance with suppliers recommendations.

The noise level at the point of the nearest window would be mitigated to at least 32dB @ 1.0 metres.

The remainder of the ducting 1.4 metres above the roof eaves level (above the acoustic lagging) would be painted black.



PROPOSED FRONT ELEVATION
Scale: 1/50

Client
MR N ALGUL

Project
140 WEST END LANE
LONDON
NW6 1SD

Drwg. Title
CHANGE OF USE

Direct Planning Limited
Town Planning Consultants and Architects, Established. 1988
Riverbank House 95/97 High Street Tel: 01689 875999
St. Mary Cray Orpington, Kent Fax: 01689 875599
BR5 3NH Email: enquiries@directplanning.co.uk

Drawn by
R GOKCE

Scale
1:100

Date
MARCH 2010

Project/Drwg. no.
DP/1477/RG/02