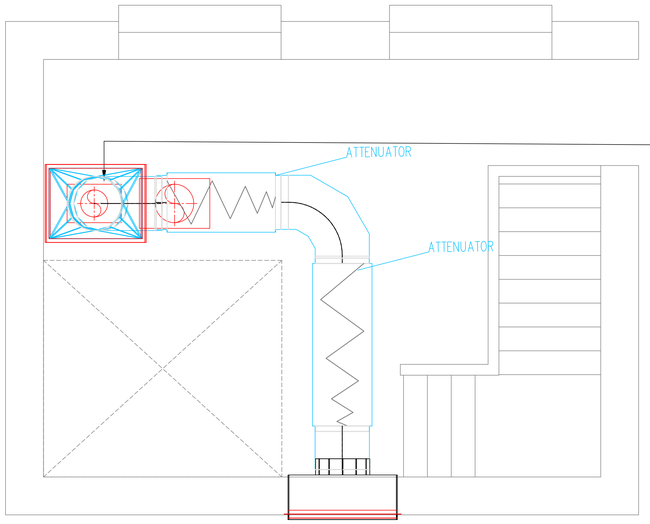
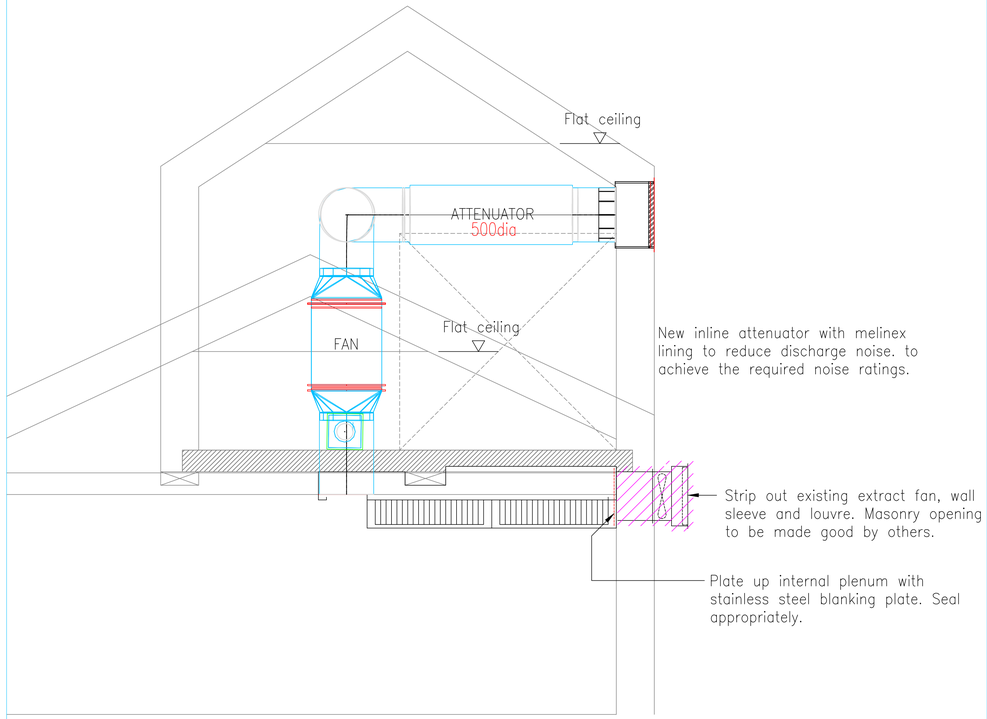


500ø kitchen extract duct rise to roof level

PLAN VIEW – FIRST FLOOR LEVEL

1:20



New inline attenuator with melinex lining to reduce discharge noise. to achieve the required noise ratings.

Strip out existing extract fan, wall sleeve and louvre. Masonry opening to be made good by others.

Plate up internal plenum with stainless steel blanking plate. Seal appropriately.

ELEVATION – VIEW IN DIRECTION 'A'

1:20

GENERAL NOTES:

1. All works shall be carried out in full accordance with the Building Engineering Services Association (BESA) DW172 specification for Kitchen Ventilation Systems as cited in Approved Document Part F as the means of compliance.
2. The Butchers Arms is a Grade 2 listed building. All works shall be carried out in a sympathetic manner. The finalised scheme shall be submitted to the local Planning Authority for approval prior to commencement of any works.
3. Due consideration shall be given to the spread of fire and smoke:
   - Building compartmentation – is fire rated ductwork required?
   - Heat radiation from ductwork – is ductwork thermal insulation required?
   - Ductwork spacing to combustible materials.
4. The natural gas supply to the main kitchen appliances shall be correctly interlocked through kitchen supply and extract fan operation.
5. Both kitchen exhausts shall be taken to roof level to avoid nuisance odour to neighbouring properties.
6. The Butchers Arms is located in a quiet suburban village. External noise ratings shall not exceed NR30 at the boundary of the public house to prevent noise nuisance to neighbouring properties. Refer to Planning requirements if a more stringent noise rating is required.
7. Builders works shall be carried out by others.
8. Electrical works shall be included as part of the scheme.

Notes:
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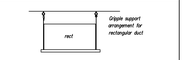
Duct sizes		Hangers: Drop rod Dia	Bearers: Rolll formed channel section profile	Spacings	
rect long side	circ diam		W H	rect	circ
mm	mm	mm	mm	mm	mm
400	315	6	W H 40x20x1.5	3000	3000
600	457	8	40x20x1.5	3000	3000
1000	813	8	40x20x1.5	3000	3000
1500	1120	10	40x40x1.5	2500	3000
2000	1525	10	40x40x2.5	2500	3000
3000	2000	12	N/A	2500	N/A



Gripple support arrangement for rectangular duct

Gripple size & working Load Limits				
No 1	No 2	No 3	No 4	No 5
0–10kg	10–35kg	35–80kg	80–225kg	225–325kg

Spiral size supported by gripple				
100–200ø	200–500ø	500–900ø	900–1600ø	1600–2200ø

ACCESS DOOR INSTALLATION

Kitchens, Oven Fresh, & Bakeries

Access doors are to be fitted at 2 meter centre maximum & at the following positions:–

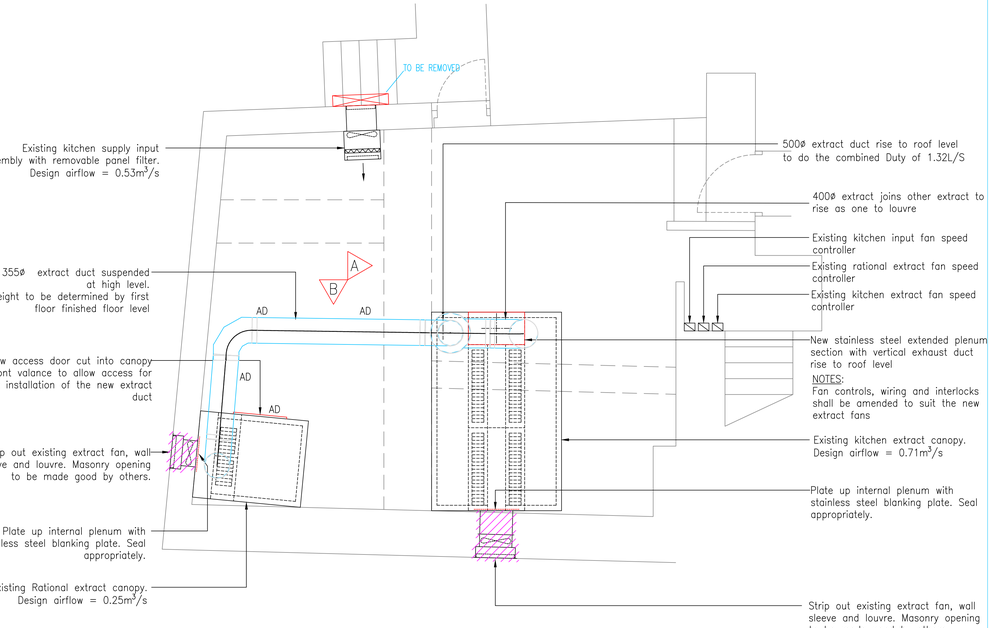
Control Dampers – both sides
Fire Dampers – Supply systems only – both sides
Heating/cooling coils – Supply systems only – both sides
Attenuators – Both sides
Filter sections – Both sides
Air turns vanes – Both sides
Change of direction – one side
In Duct fan – Both sides
Inlet/ Exhaust Louvres – one side

All other systems, access panels at 10 metre centers maximum in horizontal ductwork & not more than 1 meter from throat of a square 90 bend & at the following positions: –

Control Dampers – upstream
Fire Dampers – One side (to suit maintenance)
Heating/cooling coils – both sides
Attenuators – upstream
Filter sections – upstream
Air turns vanes – upstream
Change of direction – one side
In Duct fan – upstream
Louvres – one side

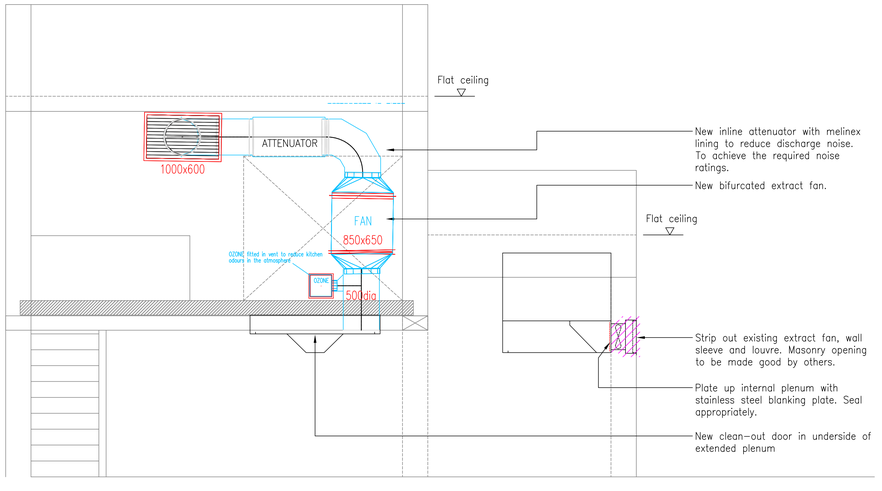
Panel sizes- Longest side or Diameter

200 – 300x100
500 – 400x200
1000 – 450x450



PLAN VIEW – GROUND FLOOR LEVEL

1:30



ELEVATION – VIEW IN DIRECTION 'B'

1:30

Drawing Produced Using	
Roof Curbs	.....
Secondary Steel Work	.....
Fire Strategy	.....
Main Steel Work	.....
Architect	.....
Mechanical Services	.....
Equipment	.....

Revision

dwg name

CURRENT DATE 20.03.2023

FREDSHAW&CO.
specialists in sheetmetal fabrication

Victoria Buildings, Albert Street, Lockwood, Huddersfield, HD1 3PR

Sheet Metal Fabrications
Ductwork Specialists
Ventilation Engineers
Canopy Manufacturers

Tel: (01484) 422625
Fax: (01484) 430959

E-Mail: Projects@fshaw.co.uk

Client:

Unique Energy

Project:

Butchers Arms Hepworth
****

Title:
.....
.....

Date:	Scale:	Engineer:	CAD:	Checked:
00/00/	1/20	TM	TM	DS

Drwg No. MV-0000-00 Ref No. 0000

Revision	A														
Drawn	TM														
Checked	TM														