

1. MITSUBISHI LGH 250 RVXT-E, LOSSNAY HEAT RECOVERY UNIT MOUNTED AT HIGH LEVEL ABOVE DISABLED TOILET. 750X250MM DUCTWORK TO FOLLOW ROUTES SHOWN TIGHT TO CEILING LEVEL. DUCTS TO EXTERIOR TO RUN AT HIGH LEVEL ACROSS STAIRCASE AND ABOVE WINDOW OPENING TO TERMINATE ABOVE EXIT DOOR AND LIGHTWELL WALL WHICH IS A NON ORIGINAL PART OF THE BUILDING FABRIC.

AT SPEED 3 = 0.510 M3/S (510L/SEC). TOTAL MAX VOL AT SPEED 4 = 0.694M3/SEC (694L/SEC) EQUIVERLENT @ SPEED 3 OF 64 PEOPLE AVERAGE ACROSS TRADING WEEK AT 8.0L SEC. PER PERSON

2. DISABLED TOILET EXTRACT. 125MM GALVANISED DUCT WITH INLINE FAN TO RUN FROM TOILET CEILING ACROSS CORRIDOR AND TERMINATE ABOVE EXIT WHICH IS A NON ORIGINAL PART OF THE BUILDING FABRIC.

3. MITSUBISHI PLA-M100EA R32 4 WAY BLOW 10KW CEILING MOUNTED HEATING AND COOLING AIRCONDITIONING UNITS RECESSED INTO CEILING BULKHEADS WITH PIPEWORK ROUTE SHOWN.

4. MITSUBISHI PUZ-M125VKA R32 EXTERNAL 10KW AIRCONDITIONING UNITS MOUNTED 3 HIGH ON WALL. PLEASE NOTE THIS ELEVATION IS THE FURTHEST AWAY FROM THE FLAT WINDOWS TO MINIMISE NOISE AND IS THE WALL TO THE ACCOMMODATION STAIR.

NOTE.

THE SYSTEM HAS BEEN DESIGNED AND SPECIFIED BY

GLYNN JONES  
SERVICES DESIGN CONSULTANTS LTD  
BARNSTON, WIRRAL.

TEL: 07858 456266

PLEASE ALSO REFER TO AEC ACOUSTIC CONSULTANTS REPORT, EXTERNAL ELEVATIONS AND DATA SHEETS FOR EQUIPMENT SPECIFIED.

PLEASE ALSO REFER NOTES ON DWG NO WL - 01 - 27 - R5



Paul Astill  
& Associates

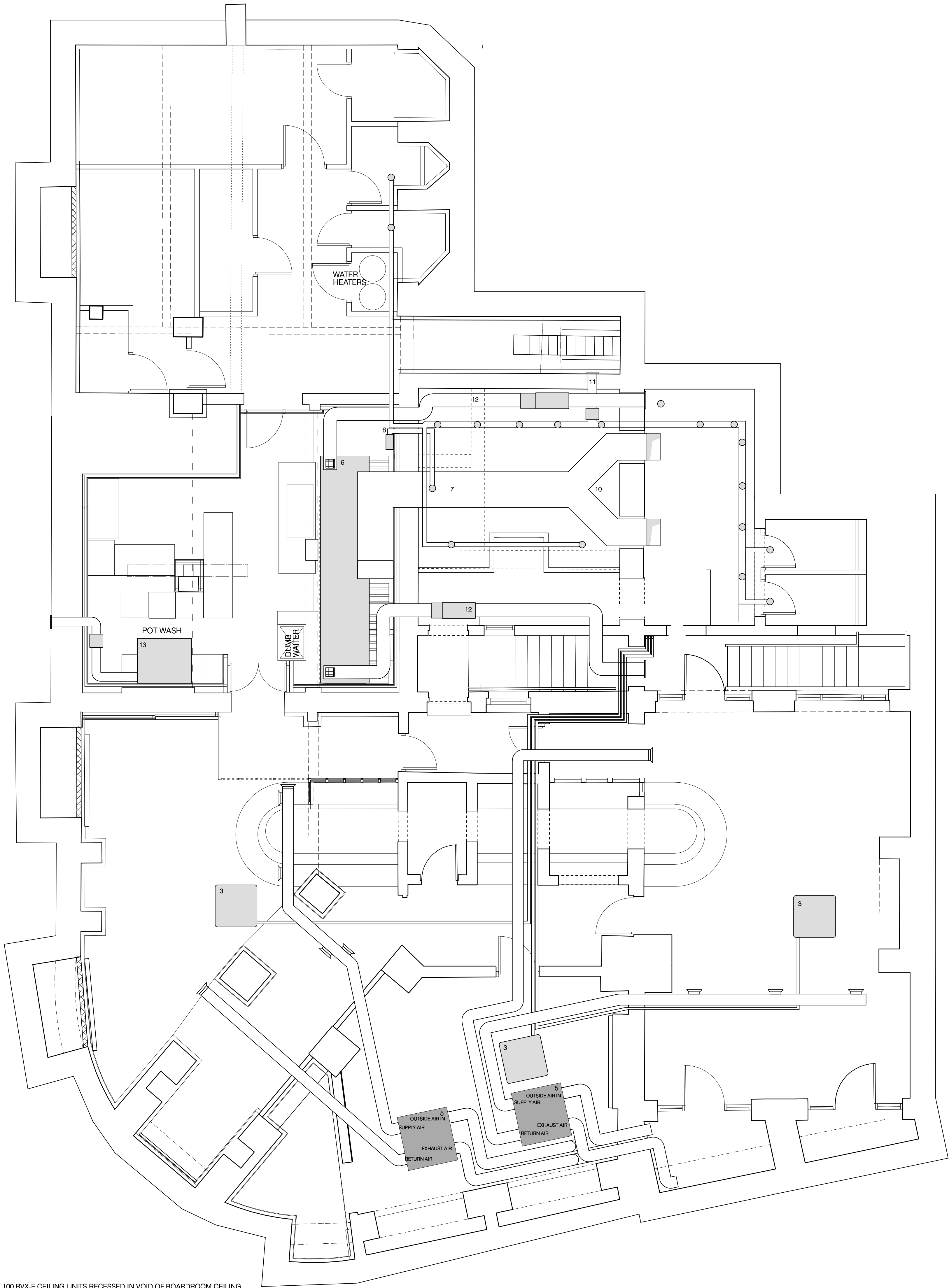
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Providence House  
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Stockport  
M6B 5DZ

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PROJECT  
CLIENT  
DATE  
JOB NO  
DRAWING NO  
TITLE  
SCALE

WHITE LION, 20 GREAT UNDERBANK, STOCKPORT  
STOCKPORT LEISURE LTD  
JANUARY 2022  
WL-01-28-R5  
GROUND FLOOR HVAC PLAN PROPOSED REV 5  
1:50 (AT A1)



5. MITSUBISHI LOSSNAY LGH 100 RVX-E CEILING UNITS RECESSED IN VOID OF BOARDROOM CEILING.

AT SPEED 3 = 0.210M<sup>3</sup>/S MAXIMUM VOLUME AT SPEED 4 = 0.278M<sup>3</sup>/S  
AIR CHANGE RATE PER HR AT SPEED 4 = 442 X 2 / 3600 = 0.245 M<sup>3</sup>/S

FRESH AIR SUPPLY RATE EQUIVALENT OF 35 PEOPLE - AVERAGE ACROSS TRADING WEEK AT 8.0L SEC. PER PERSON  
315MM GALVANISED DUCTWORK TO FOLLOW ROUTES SHOWN CLOSE TO CEILING LEVEL IN TRADING SPACES.

LOSSNAY UNITS TO BE MOUNTED IN BOARDROOM CEILING VOID TIGHT TO LINE OF BEAMS  
ABOVE SUSPENDED TIN CEILING PANELS ALLOWING ACCESS FOR SERVICING. DUCTS TO EXTERIOR  
TO RUN THROUGH WALL AND TERMINATE IN LIGHTWELL. THIS IS NOT VISIBLE FROM THE LINE OF THE  
STREET AT GROUND FLOOR LEVEL AND HAS MINIMAL IMPACT ON THE LISTED BUILDING FACADE.

6. 5150MM LONG X 1560MM WIDE EXTRACT CANOPY. FABRICATOR TO ACCOUNT FOR STEPS TO CEILING  
ABOVE RATIONAL OVEN MIN 700X400. 2X AIR EXTRACT POINTS INTO CANOPY WITH MAIN DUCT 800X400MM.  
DUCT TO RUN THROUGH WALL INTO CEILING VOID OF LADIES TOILET.

7. 800X400MM DUCT FROM KITCHEN EXTRACT ABOVE CEILING LEVEL.

8. PLASMA CLEAN XTRACT 2100 OZONE ODOUR NEUTRALISER UNIT.

9. EXTERNALLY MOUNTED ELTA SSQU4/6-3HT 710MM CENTRIFUGAL BOX FAN IN ELTA 068-0630/DENP MELINEX  
SILENCED HOUSING (LOWER DB OUTPUT THAN INTERNALLY MOUNTED FAN WHICH IS NOT PRACTICAL  
DUE TO SIZE RESTRICTIONS). ELTA SOUND ATTENUATOR DIRECTLY OFF FAN.

10. EXTRACT TO SPLIT IN 2 X 600X300MM DUCTS AND RUN THROUGH THE 2 EXISTING OPENINGS  
AT LOW LEVEL EXTERNALLY. TO GO BACK TO 1 800X400 DUCT AND RUN TO 2M ABOVE ROOF LEVEL  
EXTERNALLY. TERMINATED WITH LINDAB HF ROOF HOOD TO EJECT AIR IN AN UPWARDS DIRECTION JET  
AND PREVENT ODOUR. HOOD AND EXTERNAL DUCT TO BE POWDERCOATED BLACK

11. TOILET EXTRACT FOR GENTS, LADIES, STAFF TOILETS AND CLEANERS STORE. DUCTWORK TO TERMINATE  
THROUGH EXISTING OPENING AT LOW LEVEL ON GROUND FLOOR.

12. 2 QTY ELTA SEL-315/2-13PAC KITCHEN FRESH AIR SUPPLY FAN TO A GALVANISED SUPPLY AIR DUCT WITH FILTER PACK  
TO RUN TO EITHER SIDE OF THE CANOPY.  
FAN TO BE COMPLETE WITH ELTA 068-315/JF1 ATTENUATOR TO SUCTION CONNECTION OF FAN

FAN 1 TO TERMINATE UNDER STAIRS THROUGH EXISTING DOOR OPENING INTO INTO LIGHTWELL. WE WOULD IDEALLY  
HAVE A LARGER FAN IN THIS LOCATION AS IT PREVENTS CREATING ANY NEW EXTERNAL OPENINGS TO THE BUILDING  
BUT IT IS NOT POSSIBLE TO HOUSE A 700 X 300 DUCT IN THE CORRIDOR AND RETAIN ACCESS TO THE GENTS TOILET.  
THE SOLUTION TO MINIMISE IMPACT IS TO INSTALL 2 FANS ONE AS ABOVE AND FAN 2 TERMINATING THROUGH NEW  
OPENING AT LOW LEVEL OF GROUND FLOOR.

13. WASH UP EXTRACT CANOPY 1230MM LONG X1020MM WIDE. NOTE LOW LEVEL CEILING TO AREA.  
DUCTWORK TO TERMINATE THROUGH EXISTING OPENING AT LOW LEVEL ON GROUND FLOOR.

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 <b>Paul Astill &amp; Associates</b> <small>tel: 07956 922257 www.astillassociates.com</small>	<small>Check all measurements against drawings before construction. Do not start work until all drawings are approved by the client. If any part of the drawings is not approved by the client, the drawings are void and the contractor is not responsible for any errors or omissions. The drawings are to be used in accordance with the current building regulations.</small> <small>Precedence Order 1. Drawings 2. Bill of Materials 3. M&amp;E TCO</small>	<b>PROJECT</b> CLIENT DATE JOB NO DRAWING NO TITLE SCALE	WHITE LION, 20 GREAT UNDERBANK, STOCKPORT STOCKPORT LEISURE LTD JANUARY 2022 WL/1/2019 WL - 01 - 27 - R5 BASEMENT FLOOR HVAC PLAN PROPOSED REV 5 1 : 50 (AT A1)
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