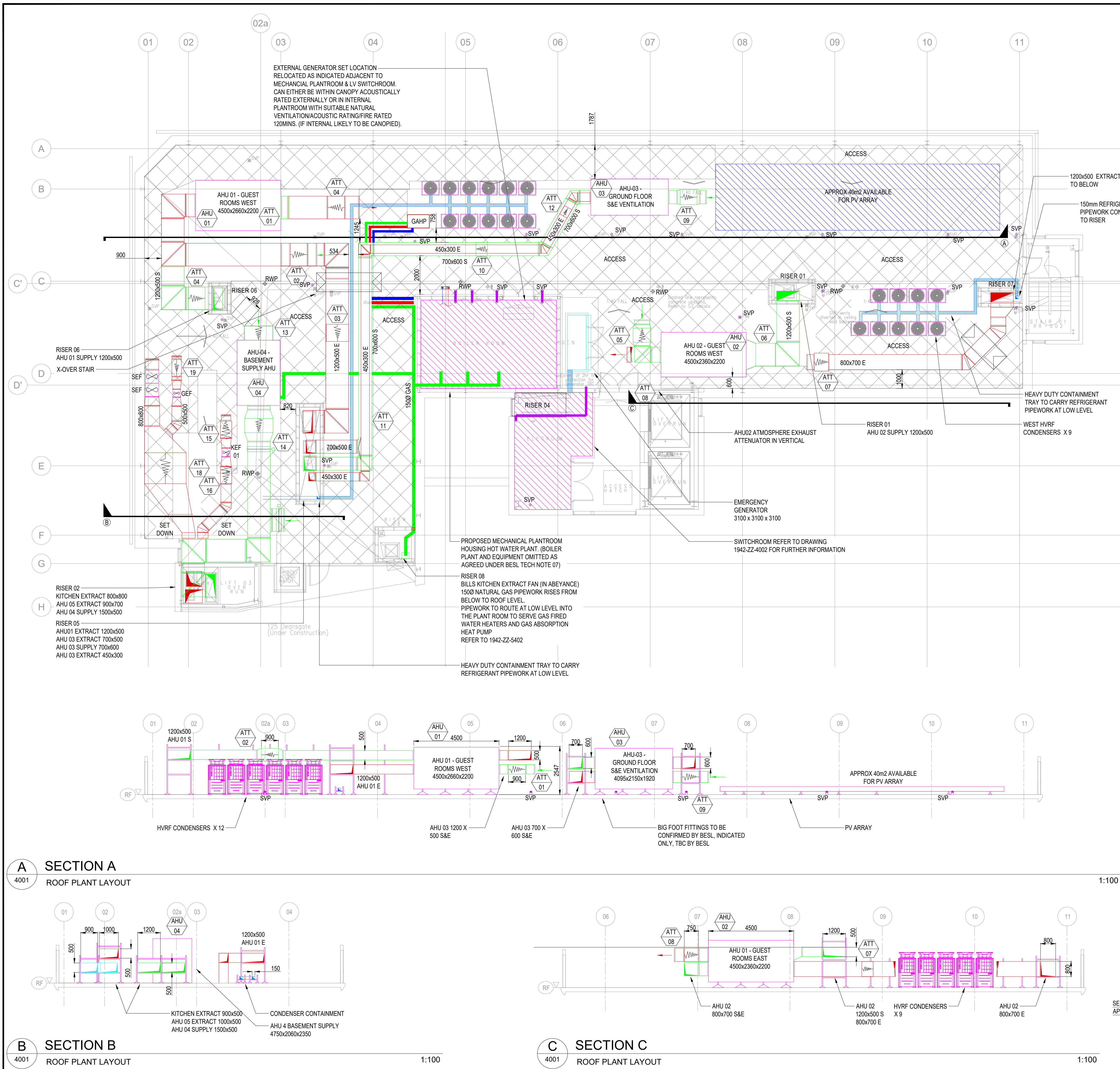




LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCTWORK AT LOW LEVEL
	RECTANGULAR EXTRACT DUCTWORK AT LOW LEVEL
	RECTANGULAR SUPPLY DUCTWORK
	RECTANGULAR EXTRACT DUCTWORK
	RECTANGULAR KITCHEN EXTRACT DUCTWORK
	SHOE CONNECTION
	RECTANGULAR ELBOW
	CIRCULAR ELBOW
	RECTANGULAR DUCTWORK CHANGE IN HEIGHT
	CONTINUATION
	SOIL VENT PIPE
	EXTERNAL CONDENSER
	SUPPLY/EXHAUST ATTENUATOR
	EQUIPMENT REFERENCE
	ACCESS SPACE
	GAS SUPPLY ROUTE
	GAHP FLOW PIPE
	GAHP RETURN PIPE

- NOTES:
- AIR INTAKE AND EXHAUSTS TO BE SEPERATED BY 5M MINIMUM TO PREVENT RECIRCULATION.
 - THERMAL INSULATION SHALL BE PROVIDED TO DUCTWORK GENERALLY THROUGHOUT AS PER THE SPECIFICATION.
 - FINAL GRILLES / DIFFUSER CONNECTIONS SHALL BE FITTED WITH FLEXIBLE ACOUSTIC DUCTING (MAXIMUM 300MM).
 - FIRE/SMOKE (ES) DAMPERS SHALL BE PROVIDED WHERE DUCTWORK PENETRATIONS ANY FIRE COMPARTMENTATION WALLS...ETC.
 - KITCHEN DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH DW172 INCLUDING INTERLOCKING WITH GAS SUPPLIES. KITCHEN EXTRACT DUCTWORK TO BE FULLY FIRE RATED TO MEET FIRE COMPARTMENTATION RATING
 - DUCTWORK AND ACCESS CLEANLINESS TO BE IN ACCORDANCE WITH TR19 AND THE PROJECT SPECIFICATION
 - CONDENSATE PIPEWORK TO BE INSTALLED TO FOLLOW REFRIGERATION PIPE ROUTE AND TERMINATE IN LOCAL SVP C/W INLINE SELF-SEALING APPROVED TRAPS
 - DUCTWORK ACCESS PANELS TO BE INSTALLED TO SERVE FIRE DAMPERS AND VOLUME CONTROL DAMPERS.
 - THE HVRF SYSTEM SHALL NOT EXCEED A MAXIMUM DIVERSITY OF 1:15%. THE SYSTEM SHALL BE INSTALLED & FULLY COMMISSIONED BY A SPECIALIST INSTALLATION CONTRACTOR IN LINE WITH VRF MANUFACTURER'S INSTALLATION GUIDELINES.
 - THE INTERCONNECTING REFRIGERANT PIPING SHALL BE MANUFACTURED FROM SEAMLESS QUALITY PHOSPHOROUS DIOXIDE SOFT/MEDIUM DRAWN COPPER TO BS2781 PART II ASTM. DIN 1754/8905, FULLY TESTED BY THE EDDY CURRENT METHOD, DEHYDRATED AND CAPPED.
 - PIPEWORK SHALL BE INSTALLED BY A MANUFACTURERS APPROVED INSTALLER IN ACCORDANCE WITH THE CURRENT REVISION OF BS52978 AND IN ACCORDANCE WITH PANASONIC INSTALLATION INSTRUCTIONS AND THE UNIT'S INSTALLATION MANUAL.
 - ALL REFRIGERANT PIPEWORK TO BE INSULATED WITH SLIP-ON CLOSE CELL ELASTOMERIC PIPE INSULATION, WITH A FIRE PERFORMANCE RATING CLASS "0" OF BUILDING REGULATIONS.
 - WHERE REQUIRED EXTERNAL INSULATION SHALL BE PROTECTED WITH VENTURE CLAD FINISH (BLACK RAL 9005) TO ENCASE THE PIPING, AS TO REDUCE THE EFFECTS OF BIRD, VERMIN AND ENVIRONMENTAL ATTACK. WHERE PIPEWORK IS LOCATED EXTERNALLY THE CLOSED CELL ELASTOMERIC PIPE INSULATION SHALL BE UV STABILISED TO PREVENT DETERIORATION OF THE INSULATION, AND MECHANICALLY PROTECTED (E.G FROM DAMAGE/BIRDS USING AN INVERTED CABLE TRAY OR BY HAVING A HARDENED OUTER SHELL FINISH.
 - CONDENSATE PIPEWORK TO BE INSTALLED TO FOLLOW REFRIGERATION PIPE ROUTE AND TERMINATE IN LOCAL SVP C/W INLINE APPROVED TRAP. CONDENSATE TO DISCHARGE ONTO ROOF LEVEL GULLEYS AWAY FROM ACCESS ROUTES AND EQUIPMENT.
 - COMMISSIONING SHALL BE CARRIED OUT IN SUCH A WAY THAT ALL SYSTEMS OPERATE IN AN EFFICIENT MANNER. THE AIR CONDITIONING SPECIALIST SHALL EMPLOY THE MANUFACTURE TO ATTEND SITE FOR A MINIMUM OF 5 DAYS AT TIME OF COMMISSIONING.

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DESIGNERS RISK ASSESSMENT
REFER TO APPENDIX 1 OF M&E SPECIFICATION FOR DESIGNERS RISK ASSESSMENT SCHEDULE

DRAWING BACKGROUND(S):
GENERAL NOTES:

- THE DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER SUPPORTING INFORMATION INCLUDING THE ACCOMPANYING SPECIFICATIONS, DRAWINGS AND REPORTS AS WELL AS THE ARCHITECTURAL, STRUCTURAL AND CIVILS INFORMATION.
- ALL DIMENSIONS IN MILLIMETRES, UNLESS OTHERWISE STATED.
- DO NOT SCALE FROM DRAWING.
- WHERE SERVICES PASS THROUGH FIRE COMPARTMENT WALLING, FIRE STOPPING MEASURES SHALL BE PROVIDED AS REQUIRED BY THE OMEGA FIRE STRATEGY REPORT.
- ALL PLANT AND EQUIPMENT SHALL BE SUITABLE FOR THE ENVIRONMENTAL LOCATION
- ALL PLANT AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

AF1 02.03.21	AS FITTED	CC	GR
Rev	Date	Description	Eng Chk

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Project
**JOHN DALTON HOUSE
QBIC HOTEL**

Drawing Title
**ROOF LEVEL PROPOSED
PLANT LAYOUT**

Status
AS FITTED

Project No. 1942	Drawn CC	Scale / Paper Size 1:100 @ A1
Drawing No. 1942-RF-4001	Rev AF1	