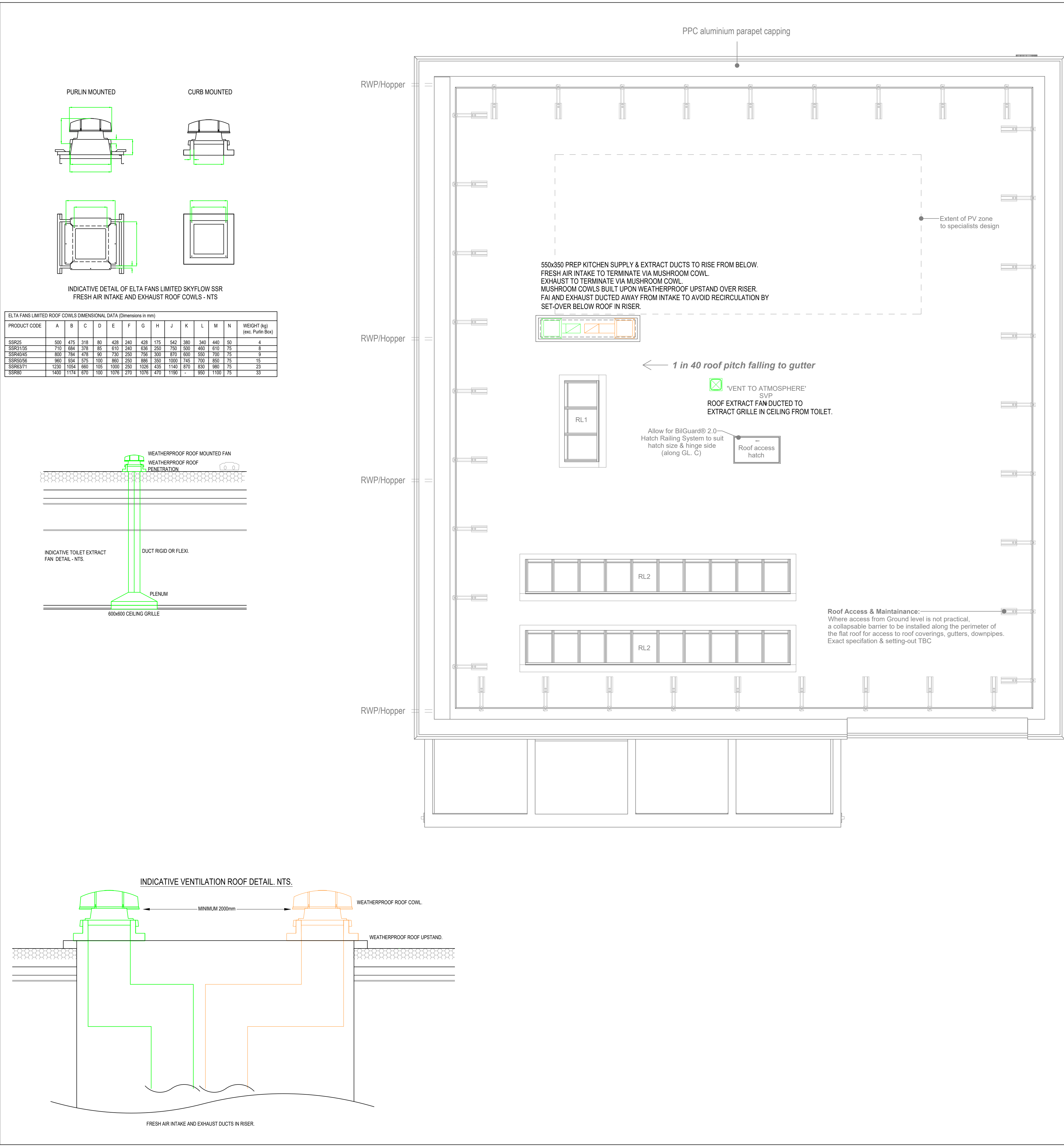




NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, STRUCTURAL AND ENGINEERING SERVICES DRAWINGS, SPECIFICATIONS AND ALL OTHER DOCUMENTS ISSUED WITH THIS CONTRACT.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE MECHANICAL SPECIFICATION ISSUED WITH THIS CONTRACT.

MECHANICAL VENTILATION INSTALLATION:

- ACCESS SHALL BE PROVIDED TO ALL DUCTWORK AND DUCT MOUNTED EQUIPMENT TO ALLOW FOR INSPECTION, MAINTENANCE AND COMMISSIONING IN ACCORDANCE WITH THE HVAC DW CURRENT STANDARDS AND CURRENT BS/BS EN STANDARDS.
- VOLUME CONTROL DAMPERS SHALL BE INSTALLED TO ALL MAIN RUNS, BRANCHES ETC TO ALLOW FOR SYSTEM BALANCING. THE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE HVAC DW CURRENT STANDARDS AND CURRENT BS/BS EN STANDARDS.
- ALL FINAL DUCTWORK CONNECTIONS TO DIFFUSERS AND GRILLES SHALL BE VIA FLEXIBLE DUCTING. MAXIMUM LENGTH FOR THIS CONNECTION SHALL BE 300mm AND INSTALLED IN STRAIGHT LENGTHS.
- THERMAL INSULATION SHALL BE APPLIED TO ALL DUCTWORK SERVICING WARM /COOLED SUPPLY AIR AND WHERE RETURN AIR IS UTILISED FOR HEAT RECOVERY. THE THERMAL INSULATION SHALL BE OF A THICKNESS, TYPE AND FINISH AS OUTLINED IN THE WBS MECHANICAL WORKMANSHIP SPECIFICATION.
- ALL DUCTWORK AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED AS OUTLINED IN THE MECHANICAL SPECIFICATION. ALLOW FOR ALL NECESSARY SECONDARY SUPPORT STEELWORK AND BRACKETS, ETC. REQUIRED TO FULLY INSTALL ALL THE DUCTWORK AND EQUIPMENT ASSOCIATED WITH THE INSTALLATION.
- DUCTWORK PASSING THROUGH FIRE COMPARTMENTS SHALL BE INSTALLED WITH FIRE DAMPERS. THE FIRE DAMPER SHALL BE EQUAL TO OR EXCEED THE RATING OF THE ELEMENT THE DUCTWORK PASSES THOUGH.
- UNLESS OTHERWISE INDICATED IN NON-FIRE RATED ELEMENTS GENERALLY DOORS TO TOILET AND STOREROOM SHALL BE UNDERCUT TO ALLOW FOR THE PASSAGE OF MAKE-UP AIR INTO THE ROOM.
- ALL DUCT MOUNTED FANS SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS ON THE INLET AND DISCHARGE SIDES.
- ALL DUCT FANS SHALL BE INSTALLED WITH AAV MOUNTINGS.

LEGEND

- PIPEWORK BELOW FLOOR
- PIPEWORK AT LOW LEVEL
- PIPEWORK AT HIGH LEVEL
- PIPEWORK ABOVE CEILING
- ISOLATION VALVE (IV)
- DOUBLE REGULATION VALVE (DRV)
- COMMISSIONING SET (CS)
- PRESSURE REDUCING VALVE (PRV)
- NON RETURN VALVE (NRV)
- LOCKSHIELD VALVE (LSV)
- 3-PORT VALVE
- 2-PORT VALVE
- STRAINER (STR)
- VALVE ON RISER
- PRESSURE GAUGE (PG or AG)
- TEMPERATURE GAUGE (TG)
- TEMPERATURE SENSOR (TS)
- AIR VENT (AV or AAV)
- DRAIN COCK (DC)
- WATER OUTLET
- RELIEF VALVE
- THERMOSTAT
- RISE TO ABOVE
- RISE FROM BELOW
- DROP FROM ABOVE
- DROP TO BELOW
- RISE TO HIGH LEVEL
- DROP TO LOW LEVEL
- HEATING
- FLOW AND RETURN
- MAINS COLD WATER
- COLD WATER SERVICE
- TANK COLD WATER
- BOOSTED COLD WATER
- HOT WATER SERVICE
- HOT WATER SERVICE FLOW
- HOT WATER SERVICE RETURN
- CHILLED WATER
- VARIABLE TEMPERATURE
- CONSTANT TEMPERATURE
- WHEEL HEAD VALVE
- LEVER BALL VALVE
- BUTTERFLY VALVE
- BALL-O-FIX VALVE
- GAS SOLENOID VALVE
- STOP COCK
- PURGE POINT

NOTES:

VENTILATION LEGEND

- FA FRESH AIR
- EA EXHAUST AIR
- S SUPPLY AIR
- R RETURN AIR / EXTRACT
- TE TOILET EXTRACT
- AHU AIR HANDLING UNIT
- AOV AUTOMATIC OPENING VENT
- ATTN ATTENUATOR
- CTA CROSSTALK ATTENUATOR
- FCU FAN COIL UNIT
- FD FIRE DAMPER
- VCD VOLUME CONTROL DAMPER
- DFA DROP FROM ABOVE
- DTB DROP TO BELOW
- RTA RISE TO ABOVE
- FB FROM BELOW
- LL LOW LEVEL
- HL HIGH LEVEL

STATUS:

CONTRACT

CLIENT:

ROSSLEE CONSTRUCTION

PROJECT:

OUR LADY'S RC HIGH SCHOOL
MANCHESTER

DRAWING TITLE:

MECHANICAL SERVICES
VENTILATION LAYOUT
ROOF

CPL INDUSTRIAL, COMMERCIAL AND DOMESTIC BUILDING SERVICES

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DATE: APR 22

DRAWN: PG

CHECKED: GF

DRAWING NO: J2599-M-57002

REV: C1