

- NOTES:**
- DUCTING TO BE MANUFACTURED IN ACCORDANCE TO SMACNA STANDARDS
  - ALL DUCT DIMENSIONS INCLUDING DIMENSIONS FOR INSULATED DUCTS REFERS TO THE SHEET METAL SIZE.
  - ALL DUCT PASSING THROUGH CONCRETE OR BRICK WALLS SHALL BE ISOLATED FROM THE WALLS BY MEANS OF A HIGH DENSITY GLOSS FIBRE COLLAR OF AT LEAST 25mm IN THICKNESS.
  - GALVANISED STEEL SHALL BE USED FOR ALL AIR-CONDITIONING AND VENTILATION DUCTING
  - ALL DUCTING SHALL BE PROVIDED WITH MEZZ FLANGES.
  - ALL SUPPLY AND RETURN AIR DUCTING EXPOSED TO OUTDOORS SHALL BE EXTERNALLY DOUBLE CLADDED AND INSULATED AGAINST DIRECT SOLAR HEAT GAINS.
  - ALL OPEN END DUCTS TO BE CAPPED OFF WITH PLASTIC PRIOR TO DELIVERY TO SITE.
  - DUCT HANGERS

LONGEST DUCT DIMENSION (mm)	ROUND HANGER (mm)	GALVANISED STRIP HANGERS (mm)	SHELF ANGLES (mm)	HANGER SPACING (m)
UP TO 760	6	25x16	25x25x3	3.0
761 TO 1000	10	25x16	38x38x3	3.0
1000 TO 2100	10	25x16	50x50x3	2.4
2100 TO 2400	10	25x16	50x50x6	2.4
2401 TO ABOVE	12	25x16	50x50x6	2.4

- ALL DIFFUSER SUPPLY FLEXIBLE TO COME c/w JUBILEE CLAMPS AND SEALED WITH DUCT TAPE ON FINAL INSTALLATION.
- ALL SUPPLY AIR DUCTING TO BE INSULATED EXTERNALLY WITH 25mm FOIL FACED FIBREGLASS TYPE FRK - ONLY AC DUCT
- ALL FLEXIBLES TO BE THERMALLY INSULATED - ONLY AC DUCT

- LEGEND**
- T WALL MOUNTED THERMOSTAT MOUNTED @ 1450mm A.F.F.L
  - CT ABOVE CEILING CONTROL THERMOSTAT LINKED @ DIFFUSER.
  - S CEILING MOUNTED TEMPERATURE SENSOR LINKED TO BMS. (ALL SCREEN/CONTROL CABLES TO RUN IN P8000 UNISTRUT).
  - SS STATIC PRESSURE SENSOR MOUNTED IN DUCT
  - BTS ZONE TEMPERATURE SENSOR @ RETURN AIR DUCT
  - \* DOOR UNDERCUT - 40mm

- ELECTRICAL LEGEND**
- 1 PHASE ELECTRICAL EQUIPMENT
  - 3 PHASE ELECTRICAL EQUIPMENT
  - SA PLUG COMPLETE WITH SHAVED EARTH PINS
  - AC-DB
  - P 8000 UNISTRUT 2 OFF

CLIENT



**DEPARTMENT OF HEALTH**  
PROVINCIAL GOVERNMENT OF THE NORTHERN CAPE

ARCHITECTS



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**REVISIONS**

REV.	DATE	BY	DESCRIPTION
A	23-07-21	L.C	ISSUED FOR INFORMATION
B	12-08-24	G.S	ISSUED FOR TENDER

**ISSUED FOR**


	PRELIMINARY	COUNCIL SUBMISSION
APPROVAL		INFORMATION
COSTING		CONSTRUCTION
X TENDER		AS BUILT

**NCDOH-NURSING COLLEGE**

Project

**BLOCK F RESOURCE CENTRE ROOF LEVEL CHILLED WATER SYSTEM HVAC LAYOUT**

Description



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Rondebosch  
Kimberley

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Reg no 2017/12367307

Drawn By: H.N. Design By: Richard Hahlane Project Engineer: Vivian Shabangu Senior Engineer: Vivian Shabangu Date: \_\_\_\_\_

**SENIOR ENGINEER APPROVAL**

NAME.....

SIGNED.....

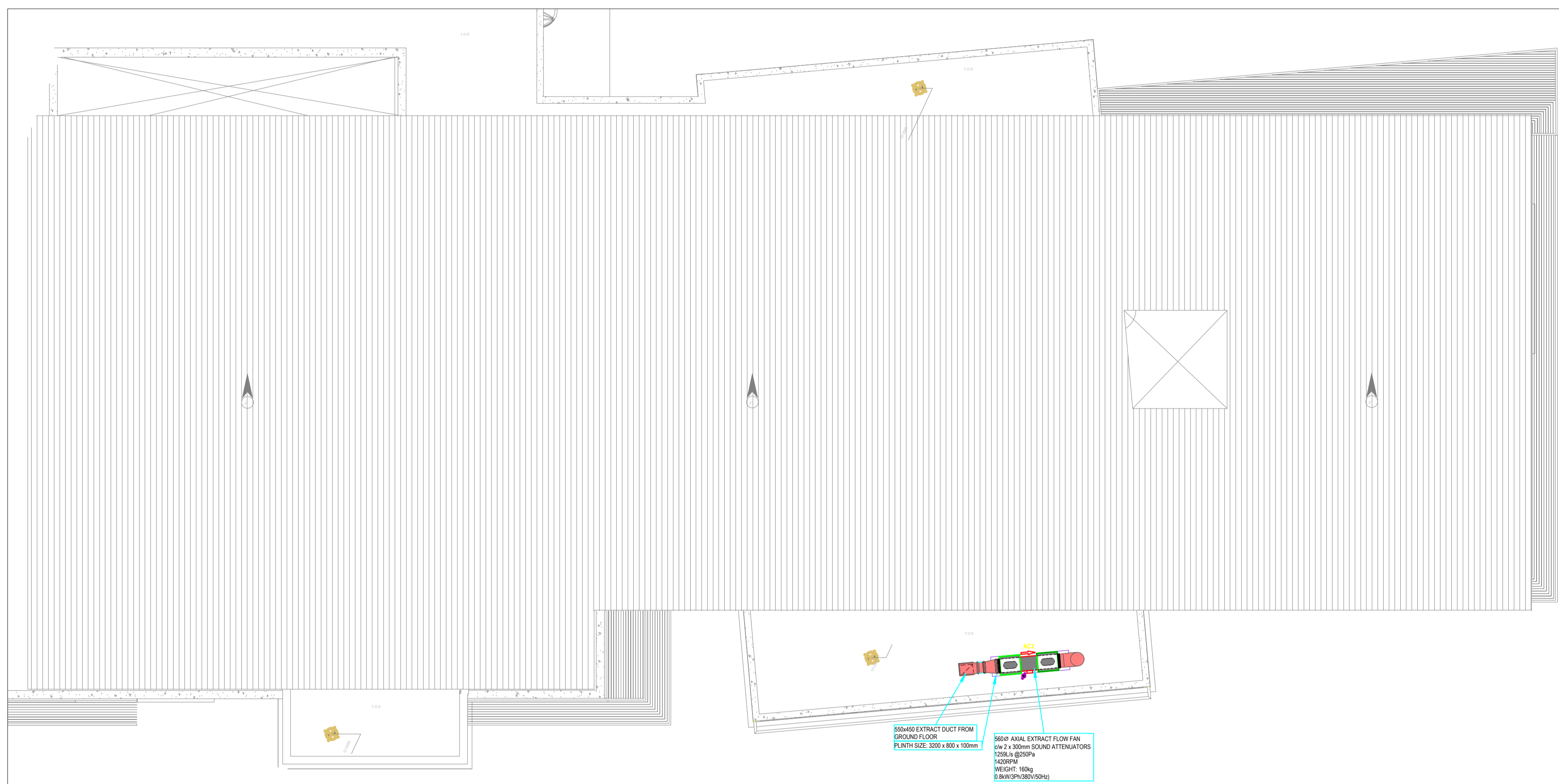
DATE.....

**PROJECT ENGINEER APPROVAL**

NAME.....

SIGNED.....

DATE.....



**BLOCK F - ROOF PLAN - CHILLED WATER SYSTEM SCALE 1:125**

TOTAL EQUIPMENT - ROOF											
Floor Level	Mark	Type	Cooling Total kW	Heating Total kW	Airflow	Voltage/Ph/Hz	Weight	Dimensions	Static Pressure	Refrigerant Piping	Count
Roof Level	AC3	560 dia Axial Flow Extract Fan c/w 2 x 300mm Sound Attenuators			1259 L/s	0.8kV/380V/3Ph/50Hz	150Kg		250Pa		1
Roof Level	AHU F	Air Handling Unit: F/A= 2539L/s	50kW		2539 L/s	5.0kV/380V/3Ph/50Hz	800Kg	1290(W)x1050(H)x2100(D)	350Pa		1
Grand total:	2										

**REFERRAL DRAWINGS**

DRAWING DESCRIPTION	DRAWING NO.	REV	REV DATE
ROOF PLAN	P2A-HDG-014-035	01	23/07/2021