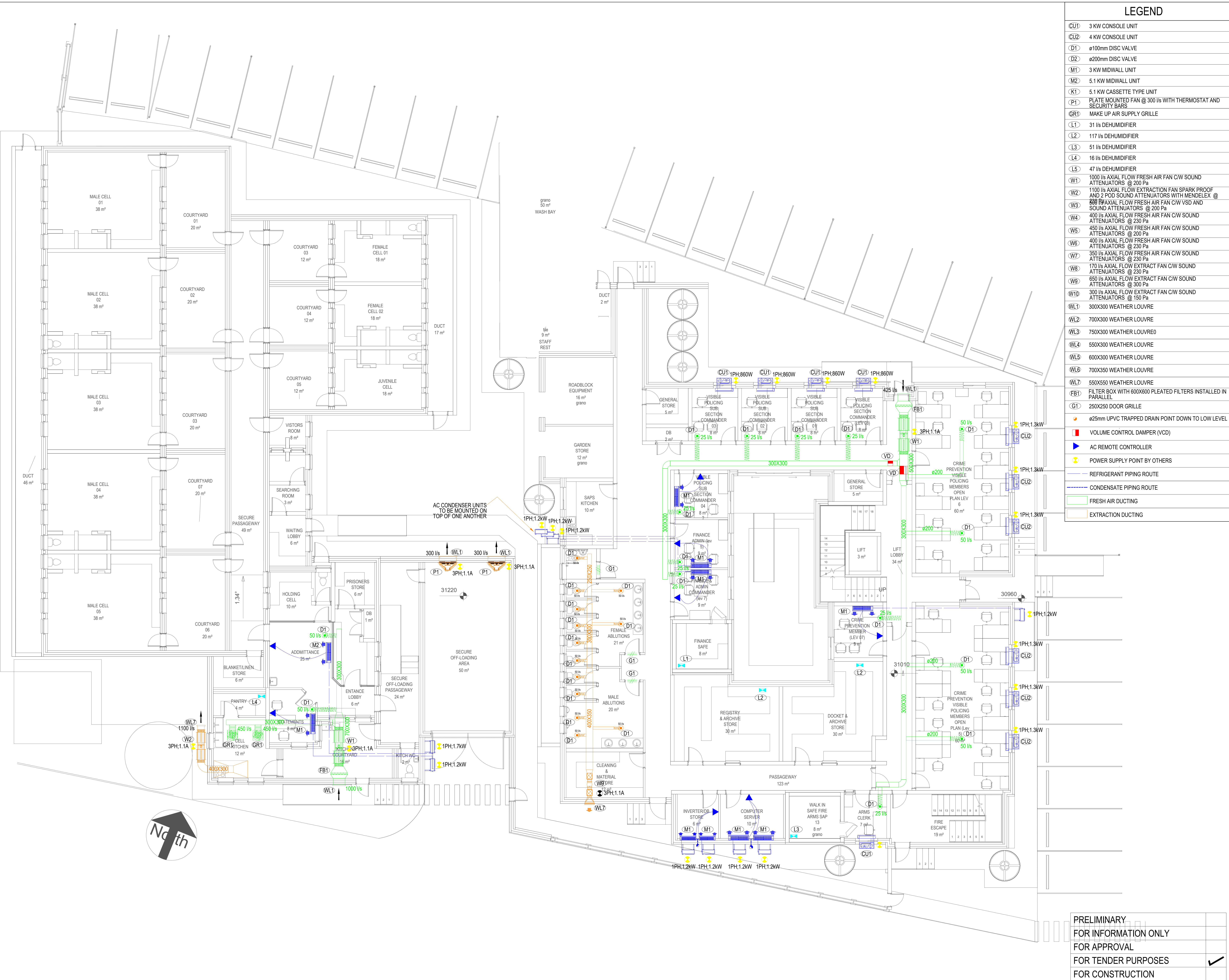




LEGEND	
CU1	3 KW CONSOLE UNIT
CU2	4 KW CONSOLE UNIT
D1	ø100mm DISC VALVE
D2	ø200mm DISC VALVE
M1	3 KW MIDWALL UNIT
M2	5.1 KW MIDWALL UNIT
K1	5.1 KW CASSETTE TYPE UNIT
P1	PLATE MOUNTED FAN @ 300 l/s WITH THERMOSTAT AND SECURITY BARS
GR1	MAKE UP AIR SUPPLY GRILLE
L1	31 l/s DEHUMIDIFIER
L2	117 l/s DEHUMIDIFIER
L3	51 l/s DEHUMIDIFIER
L4	16 l/s DEHUMIDIFIER
L5	47 l/s DEHUMIDIFIER
W1	1000 l/s AXIAL FLOW FRESH AIR FAN C/W SOUND ATTENUATORS @ 200 Pa
W2	1100 l/s AXIAL FLOW EXTRACTION FAN SPARK PROOF AND 2 FCD SOUND ATTENUATORS WITH MENDELEX @ 200 Pa
W3	400 l/s AXIAL FLOW FRESH AIR FAN C/W VSD AND SOUND ATTENUATORS @ 200 Pa
W4	400 l/s AXIAL FLOW FRESH AIR FAN C/W SOUND ATTENUATORS @ 230 Pa
W5	450 l/s AXIAL FLOW FRESH AIR FAN C/W SOUND ATTENUATORS @ 200 Pa
W6	400 l/s AXIAL FLOW FRESH AIR FAN C/W SOUND ATTENUATORS @ 230 Pa
W7	350 l/s AXIAL FLOW FRESH AIR FAN C/W SOUND ATTENUATORS @ 230 Pa
W8	170 l/s AXIAL FLOW EXTRACTION FAN C/W SOUND ATTENUATORS @ 230 Pa
W9	650 l/s AXIAL FLOW EXTRACTION FAN C/W SOUND ATTENUATORS @ 300 Pa
W10	300 l/s AXIAL FLOW EXTRACTION FAN C/W SOUND ATTENUATORS @ 150 Pa
WL1	300X300 WEATHER LOUVER
WL2	700X300 WEATHER LOUVER
WL3	750X300 WEATHER LOUVER
WL4	550X300 WEATHER LOUVER
WL5	600X300 WEATHER LOUVER
WL6	700X350 WEATHER LOUVER
WL7	550X550 WEATHER LOUVER
FB1	FILTER BOX WITH 600X600 PLEATED FILTERS INSTALLED IN PARALLEL
G1	250X250 DOOR GRILLE
VD	ø25mm UPVC TRAPPED DRAIN POINT DOWN TO LOW LEVEL
VCD	VOLUME CONTROL DAMPER (VCD)
AC	AC REMOTE CONTROLLER
PS	POWER SUPPLY POINT BY OTHERS
REF	REFRIGERANT PIPING ROUTE
COND	CONDENSATE PIPING ROUTE
FRESH	FRESH AIR DUCTING
EXTRACT	EXTRACTION DUCTING

- General Notes
- Do not Scale the Drawing
 - All dimensions to be checked on site before manufacturing or ordering of equipment.
 - The installation shall comply with the requirements of the Occupational Health and Safety Act of 1993.
 - The installation shall be in accordance with SANS 10400.
 - Any inclarities to be brought to the attention of the Consulting Engineer.
 - This drawing, or part thereof, must not be used for any other installation/ project other than this one.
 - Final extract positions to be determined on site and to be directly above stove where possible.
 - Final postions to be measured by contractor and confirmed on workshop drawings.

- HVAC Notes
- All flexible ducting shall be of the insulated fire rated type
 - Flexible ducting shall not exceed 1500mm in length
 - All filters shall be of the washable permanent type
 - All duct sizes indicated are internal free air space dimensions
 - All external ducting shall be 50mm externally insulated cladded
 - All ducting shall have Mez flanges
 - All condensate drain piping shall be sized according to manufacturer
 - All condensate drain piping fall no less than 1 percent
 - All condensate piping shall fall
 - All condensate piping on the facade shall be as detail shown
 - Thermostate controller wiring mounted in 20mm uPVC conduit
 - All Air conditioning units on ceiling
 - All air conditioning ducting to be externally insulated
 - All air conditioning ducting to be insulated with 25mm FRK
 - All doors to be undercur for ventilation.

NO	DATE	DESCRIPTION	DRN BY
0	23.09.2025	ISSUED FOR TENDER	DG

CLIENT NAME:



SOUTH AFRICAN POLICE SERVICE
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PROFESSIONAL APPROVAL CONSULTANT

Name: Wessel Johannes Jacobus Roux Date: 2025/09/19
Signature: [Signature] Pr no: 20120210

PROFESSIONAL DESIGN CONSULTANT

Name: Ozayr Adam Date: 2025/09/19
Signature: [Signature] Pr no: 2023301456

MECHANICAL

PROJECT NAME:

**NEW POLICE STATION
SAMORA MACHEL**

SHEET TITLE:

**GROUND FLOOR ADMIN
HVAC LAYOUT**

DATE: 2024/08/23	REF NO:
PAPER SIZE: A1	DESIGNED BY: TK
SCALE: 1 : 100	DRAWN BY: DG
	CHECKED BY: RI

DRAWING NUMBER:

D0000-ML-A0-01

REV:

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Stamped by Plans Approval Committee

PRELIMINARY	
FOR INFORMATION ONLY	
FOR APPROVAL	
FOR TENDER PURPOSES	✓
FOR CONSTRUCTION	