#### GENERAL NOTES:

MECHANICAL PLANS

- ALL EQUIPMENT SHALL BE INSTALLED IN APPROXIMATE LOCATION AS SHOWN ON THE DRAWINGS.
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS INDICATING ACTUAL EQUIPMENT DIMENSIONS AND
  OPERATING WEIGHTS. SUFFICIENT CLEARANCES TO FACILITATE NORMAL SERVICE AND MAINTENANCE
  WORK ARE PROVIDED IN THESE DESIGN PLANS. HOWEVER, SHOULD ACTUAL EQUIPMENT PHYSICAL
  SIZES DIFFER CONSIDERABLY FROM THOSE SHOWN IN THE PLANS, THE CONTRACTOR SHOULD
  NOTIFY THE ARCHITECT OR DESIGN ENGINEER IMMEDIATELY IN WRITING.
- ALL EQUIPMENT SHALL BE SET ON 150MM. THICK, LEVEL REINFORCED CONCRETE BASE, UNLESS OTHERWISE SPECIFIED.
- 4. ALL EQUIPMENT SHALL BE MOUNTED ON OR SUPPORTED BY VIBRATION ISOLATORS.
- 5. THIS CONTRACTOR SHOULD COORDINATE HIS WORK CLOSELY WITH THE WORK OF OTHER TRADES. PROVISIONS FOR THE PIPE PASSAGES THRU WALLS, FLOORS, AND SLABS SHALL BE COORDINATED IN ADVANCE WITH THE GENERAL CONTRACTOR. FAILURE ON THE PART OF THIS CONTRACTOR TO MAKE SUCH PROVISIONS IN ADVANCE SHALL MEAN PROVIDING THEM LATER AT HIS OWN EXPENSE.
- PIPES SHALL BE ANCHORED, PLUMB & PARALLEL TO BUILDING LINES. PIPE HANGERS & SUPPORTS SHALL BE INSTALLED AT 1.2 METERS ON CENTER. ALL PENETRATIONS THRU WALLS, FLOORS AND ROOF SHALL BE PROVIDED WITH PIPE SLEEVES. INSTALL 3MM. THICK RUBBER BETWEEN PIPES AND SUPPORT TO ELIMINATE METAL TO METAL CONTACT.
- ALL PIPING SHALL BE LEAK TESTED WITH A PRESSURE OF AT LEAST 1½ TIMES THE DESIGN WORKING PRESSURE.
- AIR CONDITIONING AND VENTILATION DUCTWORKS SHALL BE FABRICATED AS PER SMACNA STANDARDS. OUTDOOR INSTALLATIONS SHALL BE PROVIDED WITH ALUMINUM SHEET CLADDING.
- 9. ALL MATERIALS TO BE USED SHALL BE NEW AND CLEAN.
- ALL WEATHER EXPOSED PIPES SHALL BE INSULATED AND PROVIDED WITH ALUMINUM SHEET CLADDING.
- ANY DEVIATIONS AND REVISIONS FROM THE PLANS SHALL BE REFERRED TO THE ARCHITECT OR ENGINEER IN CHARGE FOR REVIEW AND APPROVAL.
- ALL NECESSARY GOVERNMENT PERMITS AND OTHER LOCAL AUTHORITIES SHALL BE SECURED AND BORNE BY THE CONTRACTOR.
- 13. ALL WORKS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE.

#### NOTES ON PIPING INSTALLATION:

- REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
- WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS SHOULD BE PASSED THROUGH PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
- 3. FITTINGS:
- A. USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. DO NOT USE FIELD-FORMED ELBOWS, REDUCERS ETC.
- B. JOINTS BETWEEN PIPES SHOULD BE THROUGH STANDARD COPPER COUPLING FORMED FITTING MADE BY SWAGING OR ENLARGING ONE PIPE END TO BE ABLE TO RECEIVE THE OTHER PIPE SECTION WOULD NOT BE ALLOWED.
- C. JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FLARED FITTINGS.
- 4. THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH LIQUID AND SUCTION LINE) TO A PRESSURE OF 3100 Pa USING DRY NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 24 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD. THE NITROGEN CHARGE SHALL BE RELIEVED DOWN TO 140 KPa. TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE REDUCTION IN THE TEST PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.
- PROPERLY TESTED PIPING SHOULD BE SECURELY CAPPED AT BOTH ENDS AND WITH HOLDING CHARGED AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.
- 6. ALL REFRIGERANT PIPES SHALL BE TYPE L.

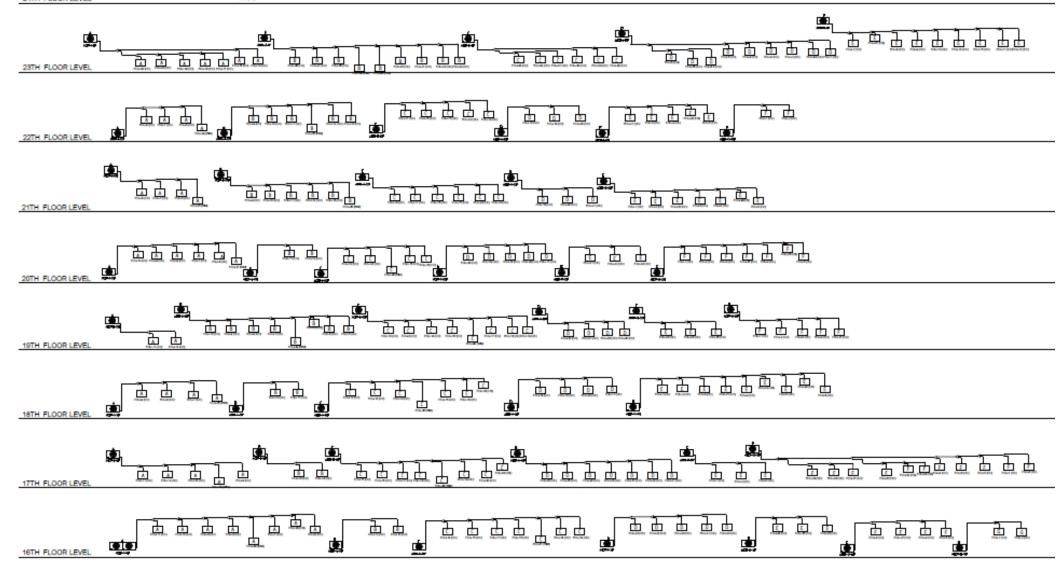
#### LEGENDS & SYMBOLS:

DEGREE CELCIUS ENTERING AIR TEMP

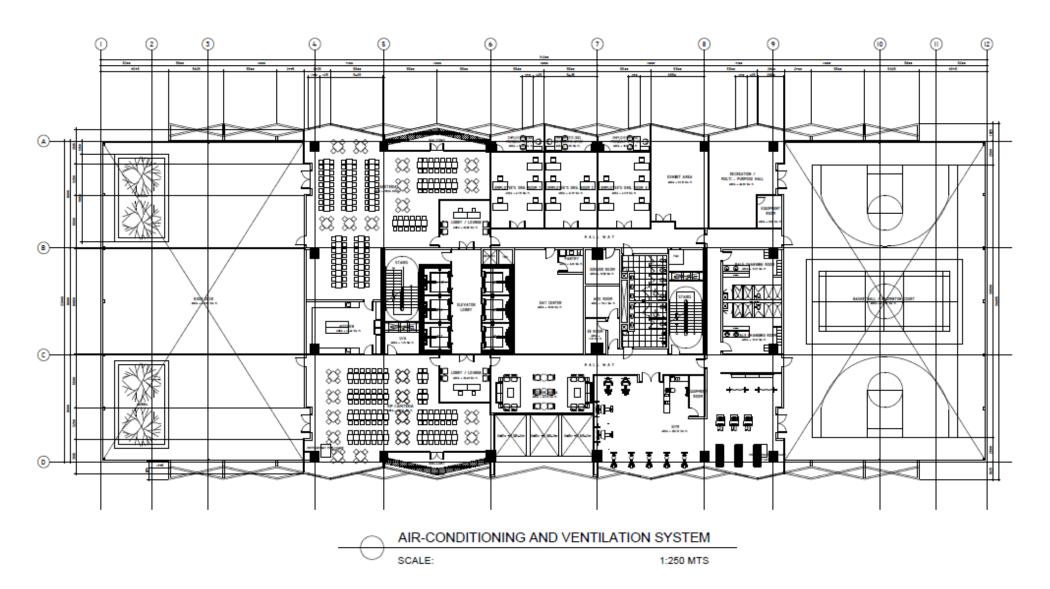
LAT	LEAVING AIR TEMP
V/PH/HZ	VOLTS/PHASE/HERTZ
PF PF	PRESSURIZATION FAN
TEF	TOILET EXHAUST FAN
CFM	CUBIC EXHAUST FAN
FPI	FINS PER INCH
VD	OPPOSED BLADE VOLUME DAMPER
LD	LOUVER DOOR OPENING
QTY	QUANTITY
GPM	GALLONS PER MINUTE
LPM	LITERS PER MINUTE
KPa	KILOPASCAL
HP	HORSE POWER
MM	MILLIMETER
MPS	METER PER SECOND
FPS	FINS PER SECOND
DB	DRY BULBE TEMPERATURE
WB	WET BULB TEMPERATURE
KG	KILOGRAM
KW	KILOWATT
RPM	REVOLUTION PER MINUTE
FAF	FRESH AIR FAN
EF	EXHAUST FAN
ACCU	AIR COOLED CONDENSING UNIT
TR	TONS OF REFRIGERATION
KCAL/HR	
LPM	LITERS PER MINUTE
CMH	CUBIC METER PER HOUR
GPM	GALLON PER MINUTE
ESP	EXTERNAL STATIC PRESSURE
EAG	EXHAUST AIR GRILLE
EAL	EXHAUST AIR LOUVER
EAD	EXHAUST AIR DUCT
FAG	FRESH AIR GRILLE
FAL	FRESH AIR LOUVER
FAD	FRESH AIR DUCT
TEAD	TOILET EXHAUST AIR DUCT
TEAG	TOILET EXHAUST AIR GRILLE
TS	THERMOSTAT SENSOR
SE	SMOKE EVACUATION
EF	EXHAUST FAN

MECHANICAL GENERAL NOTES AND LEGEND

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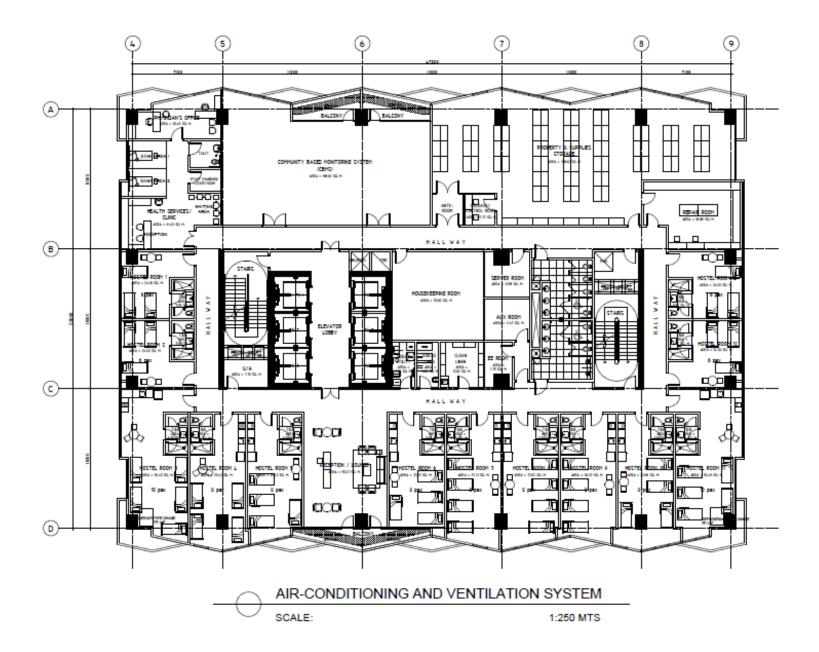


# 15TH FLOOR LEVEL 14TH FLOOR LEVEL 12TH FLOOR LEVEL 11TH FLOOR LEVEL 10TH FLOOR LEVEL 9TH FLOOR LEVEL 8TH FLOOR LEVEL



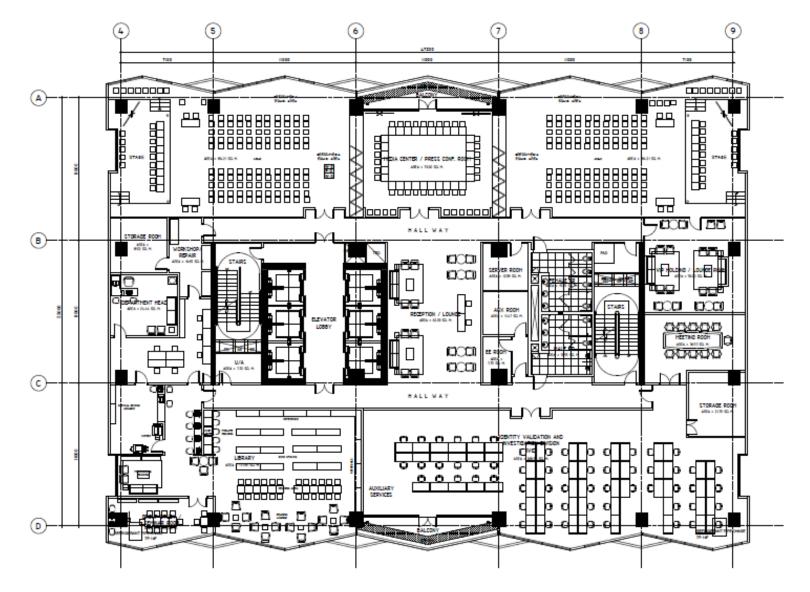
TOTAL FLOOR AREA = 3,009.60 sq.m.

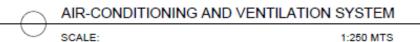
7th FLOOR

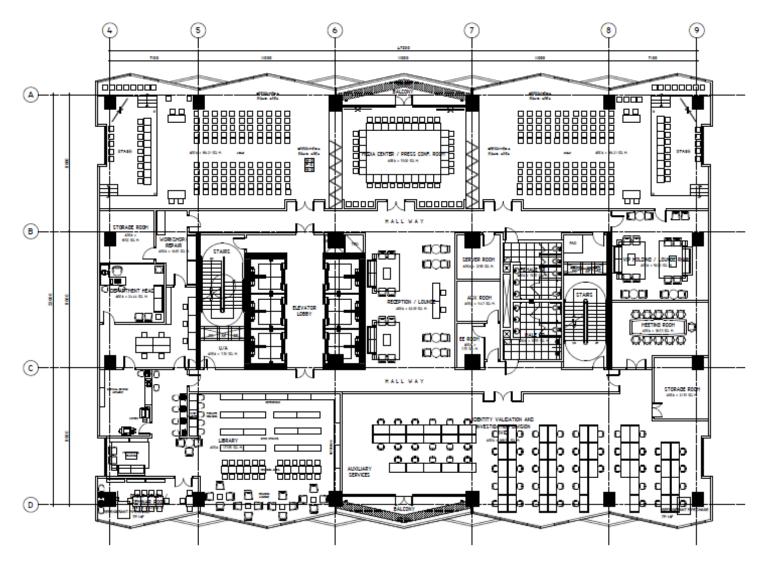


TOTAL FLOOR AREA = 3,009.60 sq.m.

8th FLOOR

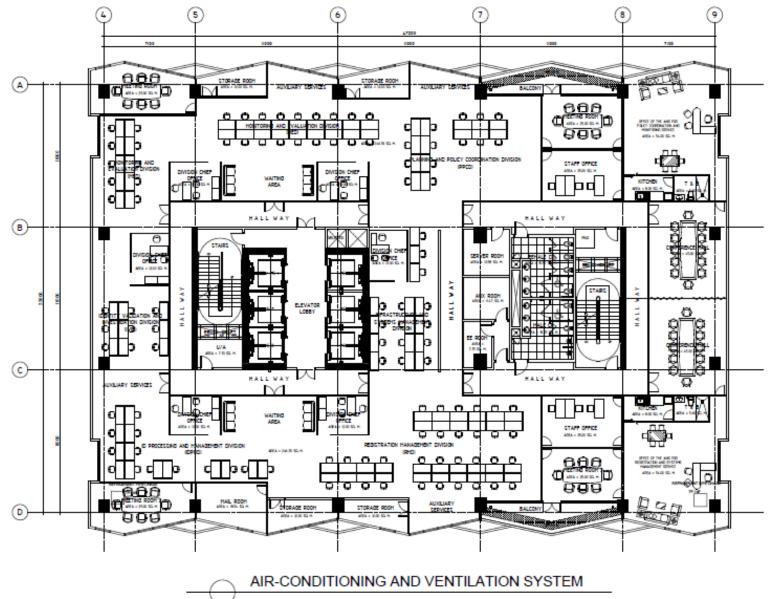




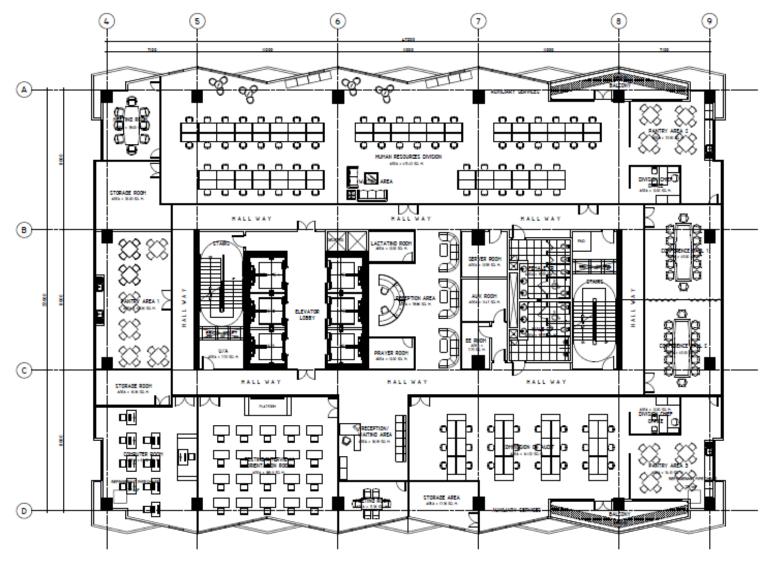


AIR-CONDITIONING AND VENTILATION SYSTEM

SCALE: 1:250 MTS

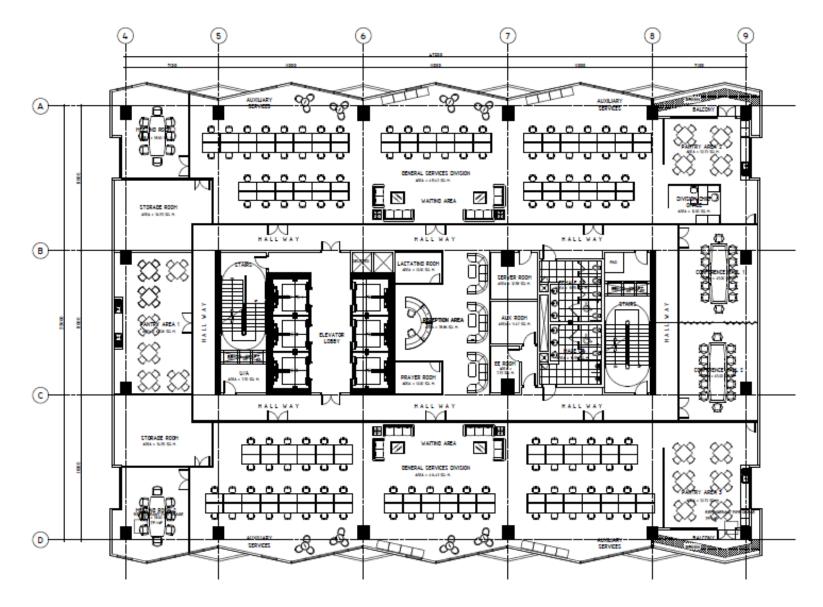


SCALE: 1:200 MTS



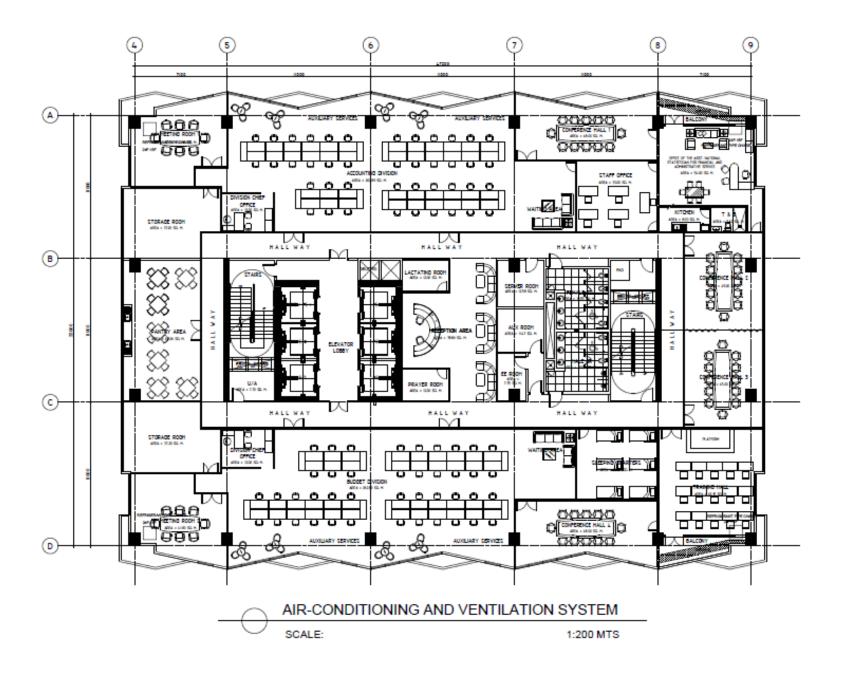
AIR-CONDITIONING AND VENTILATION SYSTEM

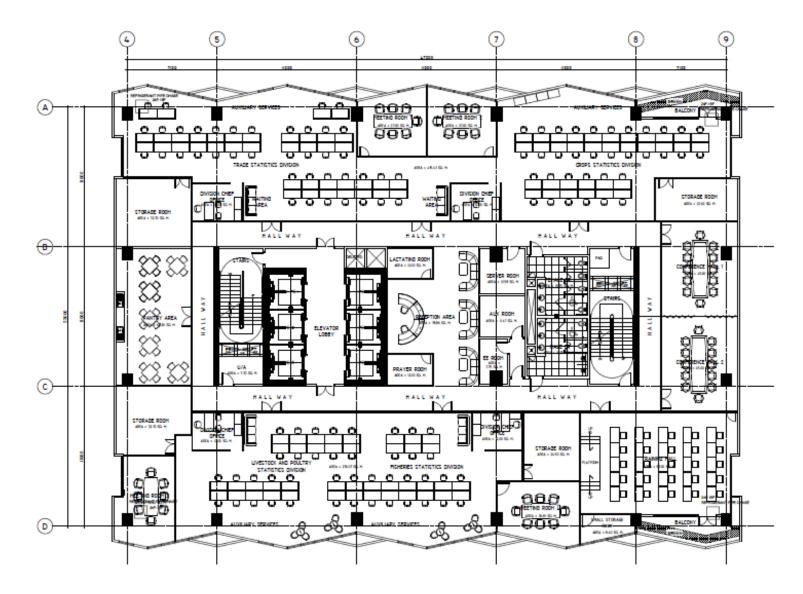
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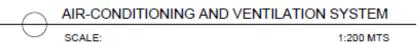


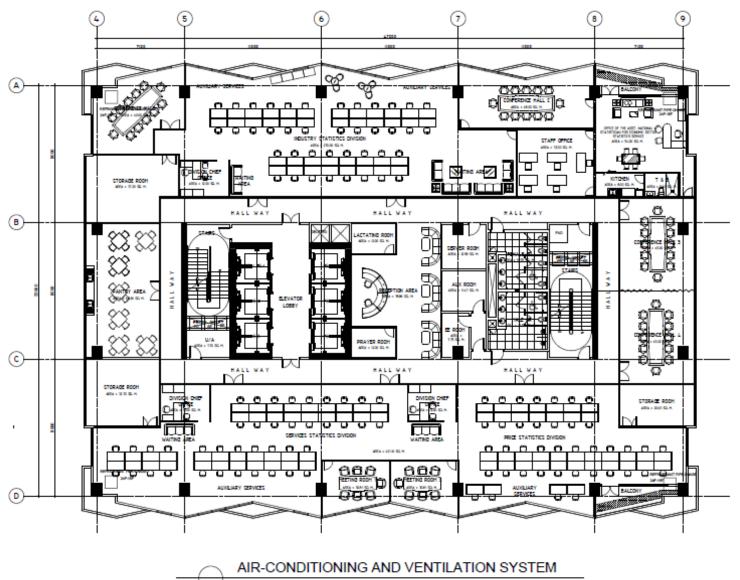
AIR-CONDITIONING AND VENTILATION SYSTEM

SCALE: 1:200 MTS

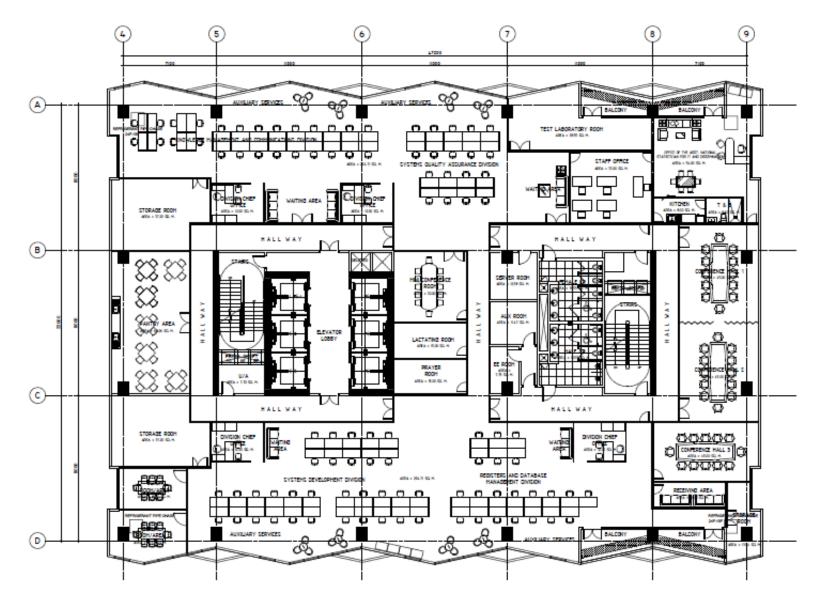




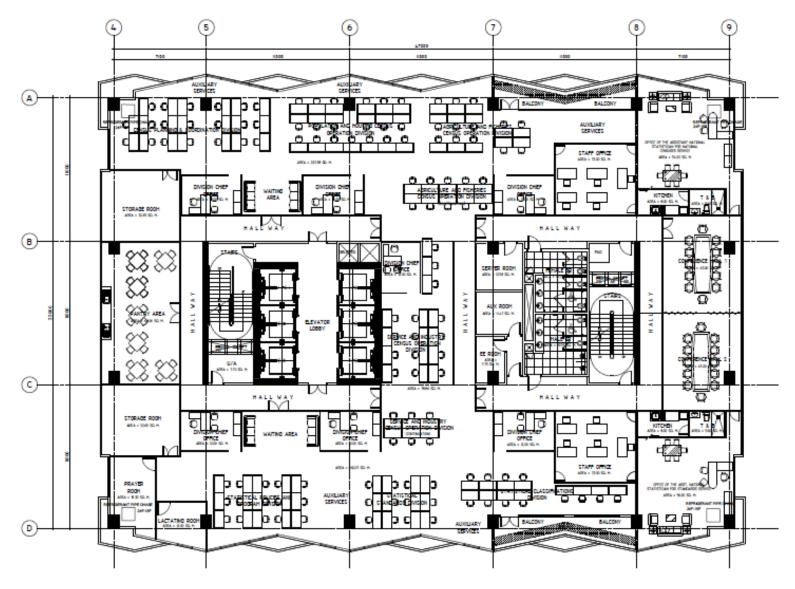




SCALE: 1:200 MTS







AIR-CONDITIONING AND VENTILATION SYSTEM

SCALE: 1:200 MTS

NATIONAL CENSUSES SERVICE & STANDARDS SERVICE