



ROOF PLAN
SC. 1:100

GENERAL NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
- 2-ALL ELEVATIONS AND COORDINATES ARE IN METERS.
- 3-ALL FLOW RATES ARE IN L/S
- 4-THE EXECUTIVE CONTRACTOR MUST CHECK ALL DIMENSIONS AT SITE PRIOR TO ANY FABRICATION & CONSTRUCTION.
- 5-THE EXECUTIVE CONTRACTOR SHALL PREPARE SHOP DRAWINGS WHICH HAVE BEEN COORDINATED WITH OTHER TRADES BEFORE OF ANY FABRICATION AND INSTALLATION.
- 6-THE MATERIAL OF ALL DUCTWORK SHALL BE GALVANIZED STEEL SHEET METAL CONFORM TO ASTM A653/A653M.
- 7-THE MATERIAL OF DUCTWORK INSIDE BATTERY ROOM SHALL BE STAINLESS STEEL SHEET.
- 8-ALL HVAC SUPPLY DUCTS INSIDE CONDITIONED AREAS (EXCEPT IN BATTERY ROOM) SHALL BE INSULATED WITH 19mm ELASTOMERIC MATERIAL (EPDM) AND COVERED BY VAPOR BARRIER AND ALUMINUM FOIL.
- 9-ALL SAND TRAP LOUVERS SHALL BE MADE OF GALVANIZED SHEET.
- 10-ALL DIFFUSERS, GRILLES AND REGISTERS (EXCEPT IN BATTERY ROOM) SHALL BE MADE OF ALUMINUM SHEET. FOR BATTERY ROOM, ALL DIFFUSERS AND GRILLES SHALL BE MADE OF STAINLESS STEEL.
- 11-ALL MANUAL VOLUME DAMPERS AND FIRE DAMPERS SHALL BE MADE OF GALVANIZED SHEET.
- 12-ACCESS DOOR SHALL BE CONSIDERED FOR ALL FIRE DAMPERS.
- 13-SIZE AND DIMENSION OF PACKAGED UNIT AND EXHAUST FANS WILL BE FINALIZED AFTER PURCHASE ORDER.
- 14-THE BATTERY ROOM EXHAUST FAN MUST BE EXPLOSION PROOF TYPE (Eex d-IC-T3).
- 15-CONNECTION OF DUCTS TO THE FAN FILTER UNITS AND EXHAUST FANS SHALL BE ADJUSTED AT SITE.
- 16- ALL EXHAUST DUCT INSIDE CONDITIONED AREA SHALL BE INSULATED WITH 19mm ELASTOMERIC MATERIAL (EPDM) AND COVERED BY VAPOR BARRIER AND ALUMINUM FOIL.

REFERENCE DOCUMENTS	DOC. NO.
HVAC DESIGN CRITERIA	LRP-TNA-HV-99-SPC-0001
PROCESS CONTROL BUILDING NO.03 HVAC CALCULATION	LRP-TNA-HV-15-CAL-0001
PROCESS CONTROL BUILDING NO.03 HVAC EQUIPMENT DATA SHEETS	LRP-TNA-HV-19-DSH-0002

LEGEND

B.O.D	BOTTOM OF DUCT		SUPPLY DUCT SECTION
B.O.E	BOTTOM OF ELEMENT		RETURN DUCT SECTION
B.O.P	BOTTOM OF PIPE		EXHAUST DUCT SECTION
VD	VOLUME DAMPER		DUCT SUPPORT
M.F.D	MOTORIZED FIRE DAMPER		BLAST PROOF VALVE
PKG	PACKAGED AIR HANDLING UNIT		REFRIGERANT LIQUID PIPE
EF	EXHAUST FAN		REFRIGERANT SUCTION PIPE
	SAND TRAP LOUVER		
	MOTORIZED FIRE DAMPER		
	MOTORIZED DAMPER		

KEY PLAN

03	24-JAN-24	Approved for Construction	H.RASOOLI	H.RASOOLI	R.JAVADZADEH
02	17-SEP-23	Issued for Approval	H.RASOOLI	H.RASOOLI	AR.AHOOEI
01	13-SEP-23	Issued for Approval	H.RASOOLI	H.RASOOLI	AR.AHOOEI
00	26-JUL-23	Issued for Approval	H.RASOOLI	H.RASOOLI	AR.AHOOEI

Rev. Date Purpose of Issue PRE'D. CHK'D. APR'D.

Project
Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

P.O. No.:XXXX	
Client:	Consultant:

DRAWING TITLE:
Process Control Building No.03 HVAC Roof PLAN

OLD Doc. No.: -	Doc. No.: LRP-TNA-HV-19-DWG-0004
Size: A1	SHEET No. 1 OF 1
	REV. 02