AIR LOUVERS SCHEDULE

EQUIPMENT NUMBER	BASIS OF DESIGN		SERVICE	DESCRIPTION	MATERIAL	CFM	HEIGHT (IN)	WIDTH (IN)	FACE AREA (SQFT)	FREE AREA %	FREE AREA (SQFT)	FREE AREA VELOICTY (FPM)	PRESSURE DROP (IN. WG)	NOTES
	MANUFACTURER	MODEL												
LV-1	GREENHECK	EAC-401	UTILITY RM	COMBINATION DRAINABLE	EXTRUDED ALUMINUM	4500	50	70	24.3	41.5	10.1	446	0.02	ALL NOTES BELOW
LV-2	GREENHECK	ESD-635	BUILDING RELIEF	STATIONARY DRAINABLE	EXTRUDED ALUMINUM	4650	76	24	12.7	59	7.5	623	0.06	ALL NOTES BELOW
LV-3	GREENHECK	ESD-635	ROOM RELIEF	STATIONARY DRAINABLE	EXTRUDED ALUMINUM	440	20	20	2.8	40	1.1	396	0.02	ALL NOTES BELOW

LV-1 NOTES:
1. COMBINATION LOUVER: INTEGRAL MOTORIZED DAMPER AND ACTUATOR WITH 24V CONTROL POWER.
2. PROVIDE WITH BIRD SCREEN.

LV-2,3 NOTES:
1. PROVIDE WITH:
   A. BIRDSCREEN

GENERAL NOTES:
ALL EQUIPMENT TO BE FM GLOBAL APPROVED

FAN SCHEDULE

EQUIPMENT NUMBER	BASIS OF DESIGN		LOCATION	SERVICE	UNIT TYPE	TOTAL AIR (CFM)	E.S.P. (IN. W.C.)	DRIVE TYPE	MOTOR				ELECTRICAL			VFD/ECM	WEIGHT (LBS)	REMARKS
	MANUFACTURER	MODEL							BHP	MOTOR HP	OPERATING RPM	MAX RPM	VOLTAGE	PHASE	HERTZ			
EF-1	Greenheck	AER-30-02-0315-VG	UTILITY RM	UTILITY RM	WALL MOUNTED PROPELLER	4500	0.310	DIRECT	0.5	2	818	1000	460	3	60	INTEGRAL ECM	283	ALL NOTES BELOW
EF-2	CINCINNATI	PB-10A	EXTERIOR GROUND	DRIVE-THRU	RADIAL BLOWER	800	3.500	DIRECT	1.8	2	3450	3600	460	3	60	VFD BY CONTROLS CONTRACTOR (L&H AIRCO)	85	ALL NOTES BELOW

EF-1 NOTES:
1. PROVIDE WITH:
   A. BIRDSCREEN
   B. BACKDRAFT DAMPER
   C. INTEGRAL DISCONNECT
   D. 90° WEATHERHOOD
   E. HOUSING

EF-2 NOTES:
1. PROVIDE WITH:
   A. CONCRETE HOUSEKEEPING PAD A MINIMUM OF 4" HT AND EXTEND 6" ON ALL SIDES.
   B. INTEGRAL DISCONNECT
   C. SPARK A RESISTANCE CONSTRUCTION

HEAT EXCHANGER SCHEDULE

EQUIPMENT NUMBER	MANUFACTURER	MODEL NO.	COOLING WATER DATA			HEATING WATER DATA			REMARKS
			GPM	EWT	LWT	GPM	EWT	LWT	
HX-1	TRANTER	AC-016-M-5-NR-76	90	85	122	48	160	90	ALL NOTES BELOW

NOTES:
1. COOLING AND HEATING EWT AND LWT ARE SUBJECT TO CHANGE DUE TO VARYING AMBIENT AND PROCESS CONDITIONS/REQUIREMENTS.
2. PROVIDE WITH CONCRETE HOUSEKEEPING PAD A MINIMUM OF 4" HT AND EXTEND 6" ON ALL SIDES.

BREATHING AIR SYSTEM CONTROL PANEL SCHEDULE

EQUIPMENT NUMBER	MANUFACTURER	MODEL NO.	VOLTS	POWER (W)	REMARKS
ASCP-1	ENMET Corp.	ISA-300RAL	240 V	15	ALL NOTES BELOW

NOTES:
1. PROVIDE WITH:
   A. CONTROLLER TO PROVIDE FILTERS TO CERTIFY GRADE D BREATHING AIR

WATER SOFTENER SCHEDULE

EQUIPMENT NUMBER	LOCATION	SERVICE	DESCRIPTION	FLUID TYPE	GPM	UNIT DIMENSIONS (IN.)			V/PH/HZ	WEIGHT (LBS)	REMARKS
						L	W	H			
WS-1	UTILITY RM	EB-1, EB-2	SINGLE TANK	MAKEUP WATER	5	22.5"	13"	50.5"	120/1/60	120	

VACUUM FILTER SCHEDULE

EQUIPMENT NUMBER	SERVICE	CASE MAX WORKING PRESSURE (PSI)	CASE MIN WORKING PRESSURE	FLANGE CONNECTION SIZE (IN)	FILTRATION LEVEL (MICRON)	REMARKS
VF-1	MIXER VACUUM	15	FULL VACUUM	3	10	ALL
VF-2	MIXER VACUUM	15	FULL VACUUM	3	1	ALL

COMPRESSED AIR RECEIVER SCHEDULE

MARK	DESCRIPTION	LOCATION	SERVICE	MAWP	MINIMUM DESIGN METAL TEMPERATURE	CAPACITY (GAL)	RELIEF VALVE (SCFM)	DIAMETER (IN)	HEIGHT (IN)	TANK WEIGHT (LBS)	NOTES
RT-1	VERTICAL DRY COMPRESSED AIR RECEIVER	EXTERIOR	OVERHEAD CRANE, MIXER EQUIP	150 PSI	-22	2000	900	60	174	3550	ALL

NOTES:

1. PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE SYSTEM.
2. SET AIR RELIEF VALVE AT 150 PSI.
3. PROVIDE NEW RELIEF VALVE.

DAMPER SCHEDULE

EQUIPMENT NUMBER	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	DESCRIPTION	START TO OPEN PRESSURE (IN.WG.)	CFM	VELOCITY (FPM)	UNIT DIMENSIONS (IN.)			REMARKS
									DEPTH	W	H	
RD-1	GREENHECK	BR-30	B/T FH-2 & L-2	BUILDING RELIEF	BAROMETRIC RELIEF DAMPER	+0.05	4650	387	5"	24"	72"	ALL NOTES BELOW
RD-2	GREENHECK	BR-30	LV-3	SPACE RELIEF	BAROMETRIC RELIEF DAMPER	+0.05	450	162	5"	20"	20"	ALL NOTES BELOW

NOTES:
1. CFM AND VELOCITY ARE ESTIMATES AND WILL VARY DEPENDING ON ACTUAL BUILDING PRESSURE, SUPPLY AIRFLOW, AND BUILDING LEAKAGE.

FILTER HOUSING SCHEDULE

EQUIPMENT NUMBER	BASIS OF DESIGN		LOCATION	SERVICE	DESCRIPTION	CONFIGURATION QTY (HXW)	UNIT DIMENSIONS (IN.)			CFM	VELOCITY (FPM)	PREFILTER			POST FILTER			REMARKS
	MANUFACTURER	MODEL NO.					DEPTH	H	W			Type	EFFICIENCY	DIRTY PD (IN.WG.)	TYPE	EFFICIENCY	DIRTY PD (IN.WG.)	
FH-1	CAMFIL	SIDELOCK 1X1	DRIVE-THRU	EF-2	HOUSING HOLDS PLEATED PREFILTER AND HEPA FINAL FILTER	1X1	25	27.25	24	800	200	2" PLEATED DUAL 9	MERV 9	1"	XH ABSOLUTE	99.97%	2"	ALL NOTES BELOW
FH-2	CAMFIL	SIDELOCK 3X1	MIXER RM	BUILDING RELIEF	HOUSING HOLDS PLEATED PREFILTER AND HEPA FINAL FILTER	3X1	25	76	24	4650	367	2" PLEATED DUAL 9	MERV 9	1"	XH ABSOLUTE	99.97%	2"	ALL NOTES BELOW

NOTES:
1. RELIEF CFM AND VELOCITY ARE ESTIMATES AND WILL VARY DEPENDING ON ACTUAL BUILDING PRESSURE, SUPPLY AIRFLOW, AND BUILDING LEAKAGE.

HPU SCHEDULE

EQUIPMENT NUMBER	LOCATION	DESCRIPTION	PRESSURE (PSI)	PRESSURE SWITCH (PSI)	RELIEF VALVE (PSI)	V/PH/HZ	REMARKS
HPU-1	UTILITY RM	HYDRAULIC POWER UNIT FOR BOWL LIFT	1100	1150	1350	460/3/60	ALL NOTES BELOW

NOTES: OWNER PROVIDED AND CONTRACTOR INSTALLED. SCHEDULE IS FOR INFORMATION ONLY

VACUUM PUMP SCHEDULE

EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	DESCRIPTION	CFM	ULTIMATE PRESSURE (PSI)	HP (EA.)	V/PH/HZ	REMARKS
VAC-1	ATLAS COPCO	GHS585VSD+	UTILITY RM	OIL SEALED SCREW PUMP	330 CFM	0.005	10	480/3/60	ALL NOTES BELOW

NOTES: OWNER PROVIDED AND CONTRACTOR INSTALLED. SCHEDULE IS FOR INFORMATION ONLY

NO.	DATE	DSGN
0	09/18/2024	JWG

REVISION: 100% ISSUED FOR CONSTRUCTION - EXPANSION

DR	CHK	APVD
AMP	JWG	APVD

BY: JWG | APVD: SJG

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ENGINEER
No. 9593
REGISTERED PROFESSIONAL
09/18/2024
SEAL

Jacobs NABHOLZ

Mixer-Building-1
Camden OSD
Calhoun County, Arkansas
Aerojet Rocketdyne

MECHANICAL
HVAC SCHEDULES

SHEET NO
M-703

SCALE	12" = 1'-0"
DATE	09/18/2024
PROJ	D3754502
DWG	CMDN_OSD_Mixer-Building-1_M-703

PLOT DATE/TIME: 9/17/2024 10:01:27 PM

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