AIR HANDLING UNIT SCHEDULE

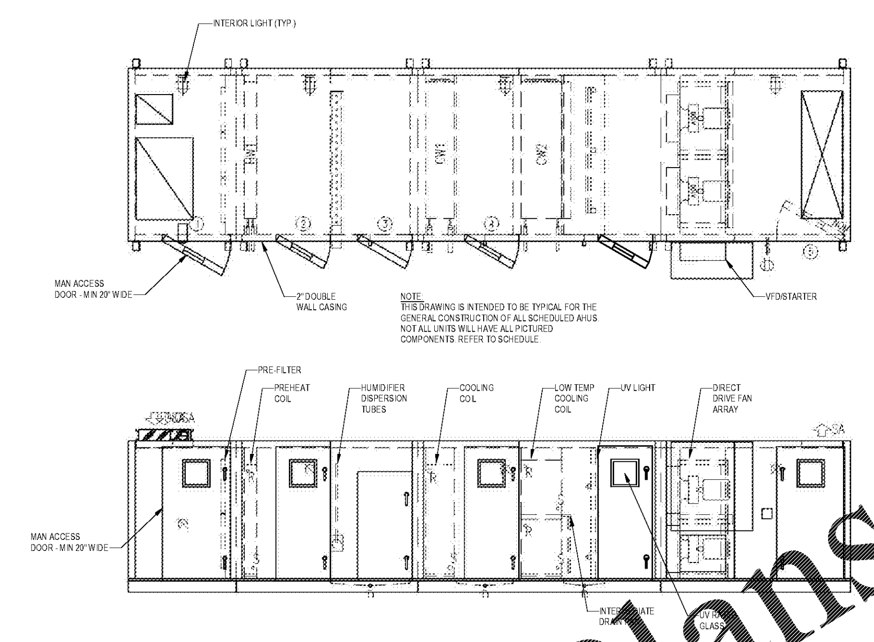
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	AIRFLOW (CFM) SUPPLY	AIRFLOW (CFM) OA	FAN DATA TYPE	DRIVE	CFM	ESP (IN.W.G.)	QTY	MOTOR HP EACH	MOTOR HP TOTAL	MOTOR RPM	STARTER TYPE	VOLTS	PHASE
MAU-1	TEMTROL	ITF	PENTHOUSE	OR, PHARMACY AHUS	8,000	8,000	FAN ARRAY	DIRECT							VFD	480	3
MAU-2			PENTHOUSE	OA FOR AHUS	24,000	24,000											
MAU-3			PENTHOUSE	OA FOR AHUS	24,000	24,000											
AHU-G-1			GROUND LEVEL	GROUND LEVEL	12,000	4,000											
AHU-G-2			LEVEL 1	GROUND LEVEL LOBBY	6,000	0											
AHU-5A-1			PENTHOUSE	LEVEL 5 WEST	15,000	4,000											
AHU-5A-2			PENTHOUSE	OPERATING ROOMS	6,000	1,000											
AHU-5A-3			PENTHOUSE	OPERATING ROOMS	6,000	1,000											
AHU-5A-4			PENTHOUSE	OPERATING ROOMS	6,000	1,000											
AHU-5A-5			PENTHOUSE	OPERATING ROOMS	6,000	1,000											
AHU-5B			PENTHOUSE	LEVEL 5 CENTER	20,000	4,000											
AHU-5C			PENTHOUSE	LEVEL 5 EAST	15,000	4,000											
AHU-6A			PENTHOUSE	LEVEL 6 WEST	15,000	4,000											
AHU-6B			PENTHOUSE	LEVEL 6 CENTER	15,000	4,000											
AHU-6C			PENTHOUSE	LEVEL 6 EAST	20,000	4,000											
AHU-7A			PENTHOUSE	LEVEL 7 WEST	15,000	4,000											
AHU-7B			PENTHOUSE	LEVEL 7 CENTER	15,000	4,000											
AHU-7C			PENTHOUSE	LEVEL 7 EAST	20,000	4,000											
AHU-8A-1			PENTHOUSE	LEVEL 8 WEST	15,000	4,000											
AHU-8A-2			PENTHOUSE	LEVEL 8 PHARMACY	8,000	4,000											
AHU-8B			PENTHOUSE	LEVEL 8 CENTER	15,000	4,000											
AHU-8C			PENTHOUSE	LEVEL 8 EAST	15,000	4,000											

COIL DATA

MARK	DESCRIPTION	COIL AIRFLOW (CFM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	ROWS	FPI	FACE VELOCITY (FPM)	APD (IN.W.G.)	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENSIBLE	FLUID TYPE	EWT (°F)	LWT (°F)	GPM	WPD (FT)
MAU-1	PREHEAT				45.0	-							WATER	135	105		
	COOLING				50.0	50							WATER	42	58		
	BRINE				42.0	42							25% PG	35	45		
MAU-2	PREHEAT				45.0	-							WATER	135	105		
	COOLING				50.0	50							WATER	42	58		
MAU-3	PREHEAT				45.0	-							WATER	135	105		
	COOLING				50.0	50							WATER	42	58		
AHU-G-1	PREHEAT				45.0	-							WATER	135	105		
	COOLING				50.0	50							WATER	42	58		
AHU-G-2	PREHEAT				45.0	-							WATER	135	105		
	COOLING				50.0	50							WATER	42	58		
AHU-5A-1	COOLING				50.0	50							WATER	42	58		
AHU-5A-2	COOLING				50.0	50							WATER	42	58		
AHU-5A-3	COOLING				50.0	50							WATER	42	58		
AHU-5A-4	COOLING				50.0	50							WATER	42	58		
AHU-5A-5	COOLING				50.0	50							WATER	42	58		
AHU-5B	COOLING				50.0	50							WATER	42	58		
AHU-5C	COOLING				50.0	50							WATER	42	58		
AHU-6A	COOLING				50.0	50							WATER	42	58		
AHU-6B	COOLING				50.0	50							WATER	42	58		
AHU-6C	COOLING				50.0	50							WATER	42	58		
AHU-7A	COOLING				50.0	50							WATER	42	58		
AHU-7B	COOLING				50.0	50							WATER	42	58		
AHU-7C	COOLING				50.0	50							WATER	42	58		
AHU-8A-1	COOLING				50.0	50							WATER	42	58		
AHU-8A-2	COOLING				50.0	50							WATER	42	58		
AHU-8B	COOLING				50.0	50							WATER	42	58		
AHU-8C	COOLING				50.0	50							WATER	42	58		

MARK	PRE FILTER EFFICIENCY	INITIAL APD (IN.W.G.)	DIRTY APD (IN.W.G.)	FACE VELOCITY (FPM)	FINAL FILTER EFFICIENCY	INITIAL APD (IN.W.G.)	DIRTY APD (IN.W.G.)	FACE VELOCITY (FPM)
MAU-1	MERV 7	0.1	0.5	400	N/A			
MAU-2	MERV 7	0.1	0.5	400	N/A			
MAU-3	MERV 7	0.1	0.5	400	N/A			
AHU-G-1	MERV 7	0.1	0.5	400	N/A			
AHU-G-2	MERV 7	0.1	0.5	400	N/A			
AHU-5A-1	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5A-2	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5A-3	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5A-4	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5A-5	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5B	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-5C	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-6A	MERV 7	0.1	0.5	400	MERV 1[illegible]	0.5	1.00	400
AHU-6B	MERV 7	0.1	0.5	400	MERV [illegible]	0.5	1.00	400
AHU-6C	MERV 7	0.1	0.5	400	MERV [illegible]	0.5	1.00	400
AHU-7A	MERV 7	0.1	0.5	400	MERV [illegible]	0.5	1.00	400
AHU-7B	MERV 7	0.1	0.5	400	MERV 13	0.5	1.00	400
AHU-7C	MERV 7	0.1	0.5	400	MERV 13	[illegible]	1.00	400
AHU-8A-1	MERV 7	0.1	0.5	400	MERV 13	0.5	1.00	400
AHU-8A-2	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-8B	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400
AHU-8C	MERV 7	0.1	0.5	400	MERV 14	0.5	1.00	400

NOTES:
1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS
2. PERFORMANCE CAPACITIES SHOWN ARE MINIMUM
3. COIL AIR AND WATER PRESSURE DROPS SHOWN ARE MAXIMUM
4. AHUS WITH VFD-DRIVEN FANS HAVE A SINGLE VFD WITH BYPASS TO DRIVE ALL FANS IN ARRAY
5. PROVIDE STAINLESS STEEL DRAIN PANS AND COIL CASINGS. PROVIDE DRAIN PANS BELOW COOLING COILS.
6. PROVIDE PREMIUM EFFICIENCY FAN MOTORS
7. PROVIDE BAKED ON COATING FOR ALL COILS WHICH CONTACT UNTREATED OUTSIDE AIR. PROVDE WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION
8. PROVIDE CORROSION RESISTANT ALUMINUM OR STAINLESS STEEL DAMPERS WITH TIGHT SHUTOFF IN OUTSIDE AIRSTREAM. TAMCO 9000 OR APPROVED EQUIVALENT
9. FANS SHALL BE SELECTED WITH DIRTY FILTER ALLOWANCE, AND MOTORS SHOULD BE A MINIMUM OF 1.15 TIMES THE DESIGN BRAKE HORSEPOWER
10. FAN WHEELS SHALL BE BALANCED TO MEET THE REQUIREMENTS OF BV-4 VIBRATION LEVELS
11. REFER TO SECTIONS AND DETAILS FOR CONFIGURATION OF AHU COMPONENTS
12. PROVIDE 4" MAGNEHELIC PRESSURE GAUGES ON FILTERS AND COILS WITH ADJUSTABLE FLAGS AND COLORED BACKGROUND.
13. FILTER EFFICIENCY BASED ON ASHRAE STANDARD 52 TEST METHOD.
14. PROVIDE BACKDRAFT DAMPERS AT EACH FAN INLET.
15. UPON ACTIVATION OF FIRE ALARM, UNITS SHALL BE SHUT DOWN AND ASSOCIATED FIRE/SMOKE DAMPERS CLOSE.
16. ALL DOORS MUST OPEN AGAINST PRESSURE.
17. LARGER UNITS MAY HAVE SPLIT COILS. SCHEDULED CAPACITIES ARE BASED ON TOTAL OF ALL SPLITS. REFER TO AHU SECTIONS OR DETAILS.
18. EACH FAN MOTOR SHALL HAVE A MEANS OF DISCONNECTING AND AN INDIVIDUAL FUSE.
19. PROVIDE STATUS INDICATOR LIGHTS PER FAN.
20. PROVIDE BACKDRAFT DAMPER AT EACH FAN INLET
21. MERV 14 FINAL FILTERS SHALL BE LOCATED DOWNSTREAM OF SUPPLY FAN AND ANY WET COILS.



TYPICAL AIR HANDLING UNIT | 1

FAN SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	TYPE	AREA SERVED	AIRFLOW (CFM)	ESP (IN.W.G.)	MOTOR HP	VOLTAGE	PHASE	STARTER	DRIVE TYPE	LOCATION	FAN INTERLOCK
EF-G-1	LOREN COOK	QMXD	INLINE	GROUND LEVEL EXHAUST	6,000	0.75							
EF-G-2	LOREN COOK	SQND	INLINE	MEDGAS MANIFOLD	500	0.5							
SF-2-1	LOREN COOK	CPS 150	UTILITY SET	STAIR PRESSURIZATION	1,500	0.5							
SF-2-2	LOREN COOK	CPS 150	UTILITY SET	STAIR PRESSURIZATION	1,500	0.5							
SF-2-3	LOREN COOK	CPS 150	UTILITY SET	STAIR PRESSURIZATION	1,500	0.5							
EF-5A-1	LOREN COOK	QMXD	INLINE	LVL 5 - GEN EXHAUST	[illegible],000	0.75							
EF-5A-2	LOREN COOK	QMXD	INLINE	LVL 5 - STERILE PRO[illegible]SING	[illegible]500	1.25							
EF-5B-1	LOREN COOK	QMXD	INLINE	LVL [illegible] GEN EXHAU[illegible]	4,000	0.75							
EF-5B-2	LOREN COOK	CPS	UPBLAST UTILITY SET	LVL 5 [illegible] PACU ISO[illegible]	[illegible]	1.25							
EF-5C-1	LOREN COOK	QMXD	INLINE	LVL 5 [illegible] EXHAUST	[illegible]	0.75							
EF-5C-2	LOREN COOK	CPS	UPBLAST UTILITY SET	LVL 5 - EN[illegible]OLATION	[illegible]	1.25							
EF-6A-1	LOREN COOK	QMXD	INLINE	LVL 6 - GEN [illegible]	4,[illegible]	0.75							
EF-6B-1	LOREN COOK	QMXD	INLINE	LVL 6 - GEN EX[illegible]	4,000	0.75							
EF-6C-1	LOREN COOK	QMXD	[illegible]	LVL 6 - GEN EXHAU[illegible]	4,000	0.75							
EF-7A-1	LOREN COOK	QMXD	INLINE	LVL 7 - GEN EXHAUST	4,000	0.75							
EF-7B-1	LOREN COOK	QMXD	INLINE	LVL 7 - GEN EXHAUST	4,000	0.75							
EF-7C-1	LOREN COOK	QMXD	INLINE	LVL 7 - GEN EXHAUST	4,000	0.75							
EF-7C-2	LOREN COOK	CPS	UPB[illegible] UTILITY SET	LVL 7 - HOT LAB	300	1.25							
EF-7C-3	LOREN COOK	CPS	UPBLAS[illegible] UTILITY SET	[illegible] - MRI EMERG EXHAUST	1,200	1.25							
EF-8A-1	LOREN COOK	ACED	DOWN[illegible]	[illegible] 8 - GEN EXHAUST	4,000	0.75							
EF-8A-2	LOREN COOK	[illegible]CHNBLE	LAB UPLBA[illegible]	LVL 8 - PHARMACY HOODS	3,000	2							
EF-8A-3	LOREN COOK	[illegible]HNBLE	LAB UPLBAST	LVL 8 - PHARMACY HOODS	3,000	2							
EF-8A-4	LOREN COOK	[illegible]BLE	LAB UPLBAST	LVL 8 - PHARMACY HOODS	3,000	2							
EF-8B-1	LOREN [illegible]	[illegible]	INLINE	LVL 8 - GEN EXHAUST	4,000	0.75							
EF-8C-1	LOREN COO[illegible]	[illegible]MXD	INLINE	LVL 8 - GEN EXHAUST	4,000	0.75							
SF-9-1	LOREN COOK	[illegible]S	ROOF SUPPLY	STAIR PRESSURIZATION	1,500	0.5							
SF-9-2	LOREN COOK	[illegible]S	ROOF SUPPLY	STAIR PRESSURIZATION	1,500	0.5							
SF-9-3	LOREN COOK	[illegible]PS 150	UTILITY SET	STAIR PRESSURIZATION	1,500	0.5							
[illegible]	LOREN COOK	[illegible]	INLINE	CHILLER REFRIGERANT PURGE	3,000	0.5							
EF-9-5	LOREN COOK	QM[illegible]	INLINE	SMOKE PURGE	18,000	5							

ACCESSORIES

MARK	BACKDRAFT DAMPER	THERMOSTAT	BIRDSCREEN	ROOF CURB	DISCONNECT SWITCH	DRAIN	EQUIPMENT SUPPORTS	INLET SCREEN	CURB-MOUNTED ROOF JACK	VIBRATION ISOLATORS	WEATHER COVER	FILTERS	FAN GUARD / SCREEN	COMPANION FLANGES	INSULATED HOUSING	HINGED CURB	SPARK / EXPLOSION PROOF	BELT TUNNEL	MOTOR HEAT SHIELD	(S)TEEL / (A)LUMINUM WHEEL	BOLTED ACCESS DOOR	MEETS UL-762 W/ GREASE RESERVOIR	UL LISTED FOR SMOKE CONTROL	SIDE OR BOTTOM ACCESS MOTOR	ON / OFF SWITCH	E.C. MOTOR	AUTO BELT TENSIONER PULLEY
EF-G-1	X				X					X																	
EF-G-2	X				X					X																	
SF-2-1	X				X					X																	
SF-2-2	X				X					X																	
SF-2-3	X				X					X																	
EF-5A-1	X				X					X																	
EF-5A-2	X				X					X																	
EF-5B-1	X				X					X																	
EF-5B-2	X				X	X				X	X																
EF-5C-1	X				X					X																	
EF-5C-2	X				X	X				X	X																
EF-6A-1	X				X					X																	
EF-6B-1	X				X					X																	
EF-6C-1	X				X					X																	
EF-7A-1	X				X					X																	
EF-7B-1	X				X					X																	
EF-7C-1	X				X					X																	
EF-7C-2	X				X	X				X	X																
EF-7C-3	X				X	X				X	X																
EF-8A-1	X		X		X					X																	
EF-8A-2	X				X					X																	
EF-8A-3	X				X					X																	
EF-8A-4	X				X					X																	
EF-8B-1	X				X					X																	
EF-8C-1	X				X					X																	
SF-9-1	X		X		X					X																	
SF-9-2	X		X		X					X																	
SF-9-3	X				X					X																	
[illegible]	X				X					X																	
EF-9-5	X				X					X																	

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
2. REFER TO CONTROLS FOR INTERLOCKS

STARTER TYPES:
A - ACROSS THE LINE
S - MOTOR RATED SWITCH
E - ELECTRONIC (SOLID STATE) STARTER/DISCONNECT
VFD - VARIABLE FREQUENCY DRIVE

ELECTRIC STEAM HUMIDIFIER

MARK	MANUFACTURER	MODEL	LOCATION	AREA SERVED	MIN STEAM CAPACITY (LBS/HR)	ELECTRICAL DATA KW	FLA	MOCP	VOLTS	PHASE	DISPERSION TUBE MODEL	LOCATION	MAX ABSORBTION DISTANCE (IN.)	STEAM PRESSURE (PSIG)	LBS/HR
HUM-MAU-1	NORTEC	EL-150	PENTHOUSE	ORS, PHARMACY	135	56.1	68	100	480	3	SAM-e	MAU-1	30	0	135

NOTES:
1. CONTROL BASED SPACE RH - MINIMUM 30%
2. PROVIDE CONTROL VALVE CAPABLE OF MODULATING OUTPUT BETWEEN 0 - 100%
3. PROVIDE DOMESTIC WATER CONNECTION
4. PROVIDE HUMIDITY HIGH-LIMIT SWITCH
5. PROVIDE AIRFLOW PROVING SWITCH
6. PROVIDE LOW-WATER CUTOFF
7. UNIT SHALL BE CONFIGURED TO PREVENT THE DISCHARGE OF CONDENSATE GREATER THAN 140°F
8. PROVIDE CONDENSATE COOLER
9. ROUTE CONDENSATE TO FLOOR DRAIN
10. PROVIDE INSULATED HEADERS AND TUBES
11. PROVIDE STAINLESS STEEL FRAME FOR DISPERSION TUBES

Grady

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THE CENTER FOR ADVANCED SURGICAL SERVICES (CASS)
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1	DD - GMP	2019-07-03

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Sheet Title
SCHEDULES

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Sheet Number
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