

CUSTOM PACKAGED AIR HANDLING UNIT SCHEDULE (FULL BREAK DOWN FOR SITE ASSEMBLY)

MECHANICAL																
EQUIPMENT TAG		APPLICATION	FACE & BYPASS DAMPERS (YES/NO)	BLENDER & MIXING BOX (YES/NO)	MINIMUM OUTDOOR AIR CFM (note 8)	COOLING COIL	HEATING COIL	AIR PRE-FILTER	AIR FINAL-FILTER	HUMIDIFIER	SUPPLY FAN	RETURN FAN	MANUFACTURER Base Bldg	MANUFACTURER Alternates 1	MODEL NUMBER	MECHANICAL NOTES
AH1N-11	EMERGENCY DEPARTMENT	YES	N/A	5,250	AHUC11	EXISTING	AHUF11	AH11	AHUF11	AH11	EXISTING	FANWALL	ACOUSTIFLO		NA	1,2,4,6
AH2N-19	OR SUITE	YES	YES	10,000/18,000	AHUC19	AHUC19	AHUF19	AH19	AHUF19	AH19	AHUF19	AH19	VENTROL	HAWKON	CUSTOM	1,2,3,4,5,6,7,9,10
AH2N-20	OR SUITE	YES	YES	8,000/18,000	AHUC20	AHUC20	AHUF20	AH20	AHUF20	AH20	AHUF20	AH20	VENTROL	HAWKON	CUSTOM	1,2,3,4,5,6,7,9,10
AH2N-27	GI	YES	N/A	10,000	AHUC27	EXISTING	AHUF27	AH27	AHUF27	AH27	EXISTING	FANWALL	ACOUSTIFLO	NA	1,2,4,6	

MECHANICAL NOTES:
1. MANUFACTURER SHALL SELECT FAN ARRAY SIZE OF THEIR PREFERENCE. HOWEVER, AT LEAST ONE (1) SUPPLY AND ONE (1) RETURN FAN SHALL BE FULLY REDUNDANT WITH THE REMAINDER BEING SIZED FOR THE FULL UNIT CAPACITY.
2. MANUFACTURER SHOULD PROVIDE ALTERNATE LINE ITEM PRICING FOR THE UNIT COST OF EACH ADDITIONAL FAN AND MOTOR TO BE PROVIDED FOR EMERGENCY REPLACEMENT (IT IS STORED ON SITE BY OWNER).
3. PROVIDE SPLIT OUTDOOR AIR INTAKE DAMPERS WITH INSULATED CONTROL BLADES. ONE DAMPER SHALL BE MINIMUM 6" O.D. (POSITIONED ON TOP OF UNIT WITH AIRFLOW SENSOR FURNISHED BY UNIT MANUFACTURER) AND ANOTHER SIZED FOR FULL ECONOMIZER MODE (ADJACENT FIRST DAMPER BUT W/ AIRFLOW SENSOR). SIZE DAMPER SIZE BASED ON MINIMUM INLET VOLUMES LISTED ON THIS EQUIPMENT SCHEDULE.
4. PROVIDE ALL NEW SUPPLY AND RETURN FANS WITH SPRING TYPE VIBRATION ISOLATORS AND FLEXIBLE MOUNTING OF AIRFLOW MEASUREMENT FOR FUTURE SUPPLY/RETURN AIRFLOW RATE MONITORING.
5. AIR HANDLING UNIT MANUFACTURER TO PERFORM AIRFLOW PRESSURE, LEAK TESTING, AND FLOOR FLOOR TESTING, ON SITE AND SUBMIT REPORT TO ENGINEER/OWNER (SEE SPECIFICATIONS).
6. PROVIDE BACKUP #2 OR ALTERNATE DAMPERS FOR ALL SUPPLY AND RETURN FANS. PROVIDE NECESSARY CONTROLS TO ISOLATE OFF EACH INDIVIDUAL FAN WITHOUT AFFECTING UNIT PERFORMANCE, WHEN NECESSARY.
7. OUTLET AIR INTAKES ARE SHOWN FOR BOTH NORMAL OPERATING CONDITIONS AND BACKUPED CONDITIONS. ALL COOLING AND PREHEAT COILS TO BE SIZED FOR NORMAL OPERATING CONDITION ONLY.
8. RETURN UNITS #19 AND #20 BOTH SHALL BE PROVIDED WITH AIRFLO BLACK CONTROL DAMPERS FOR BYPASS AROUND BLINDER SECTION DURING BACKUPED MODE OF OPERATION. REFER TO MANUFACTURER DRAWINGS.
9. ALL DAMPERS TO BE PROVIDED BY THE UNIT MANUFACTURER WITH AIRFLO BLADES. DAMPER ACTUATORS AND DAMPER CONTROLS BY THE CONTRACTOR. CONTROL DAMPERS INCLUDE O.A. INTAKE (60 per note 5). RELIEF AIR, MOING BOX SURGERY UNITS #19 AND #20 BOTH SHALL BE PROVIDED WITH AIRFLO BLACK CONTROL DAMPERS FOR BYPASS OPERATION CONTROL (refer to note #9). O.A. INTAKE AND RELIEF DAMPERS SHALL HAVE INSULATED BLADES WITH INTEGRAL THERMAL BREAK.
10. RETURN UNITS AND ON UNITS #19 AND #20 ADDITIONAL CONTROL DAMPERS FOR BYPASS OPERATION CONTROL (refer to note #9). O.A. INTAKE AND RELIEF DAMPERS SHALL HAVE INSULATED BLADES WITH INTEGRAL THERMAL BREAK.

ELECTRICAL NOTES:
1. SEE SUPPLY FAN SCHEDULE AND RETURN FAN SCHEDULE FOR ELECTRICAL INFORMATION.

VARIABLE FREQUENCY MOTOR CONTROLLER SCHEDULE

MECHANICAL ALTERNATE (230923)										HARMONIC CONTROL																																																																																																																																																																																																																																																																	
EQUIPMENT TAG	QUANTITY	EQUIPMENT SERVED	VOLTAGE PHASE	CALCULATED AFC	ENCLOSURE TYPE (NEMA 4X/12)	BLANKET RATING (YES/NO)	VARIABLE TORQUE CONSTANT TORQUE	OUTPUT APTS (YES/NO)	BYPASS (YES/NO)	BYPASS TRIP (YES/NO)		BYPASS TRIP (YES/NO)	BYPASS TRIP (YES/NO)	BYPASS TRIP (YES/NO)	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN VOLTAGE	MOTOR STARTING IN 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GENERAL NOTES:
A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE SCHEDULE.
C. VFDs TO HAVE INTEGRAL DISCONNECT UNLESS NOT OTHERWISE.

NOTES:
1. SEE SUPPLY FAN SCHEDULE AND RETURN FAN SCHEDULE FOR ELECTRICAL INFORMATION.

AIR HANDLING UNIT — PREFILTER SCHEDULE

MECHANICAL (234100)														
EQUIPMENT TAG	AHU SERVED	TYPE	CFM	NUMBER OF MODULES	SIZE PER MODULE (H"XW"D")	EFFICIENCY (%)	MERV RATING	APD CLEAN (IN W.C.)	APD AT 50% LOADING (IN W.C.)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES		
AHUF11	AH1N-11	EMERGENCY DAMPERS	21,000	X	24"x24"x6"	60%	11	0.35"	1.0"	CAMFL/FARR	OPN11	1,2,3,4		
AHUF19	AH1N-19	EMERGENCY DAMPERS	30,000/60,000	X	24"x24"x6"	60%	11	0.35"	1.0"	CAMFL/FARR	OPN11	1,2,3,4		
AHUF20	AH1N-20	EMERGENCY DAMPERS	30,000/60,000	X	24"x24"x6"	60%	11	0.35"	1.0"	CAMFL/FARR	OPN11	1,2,3,4		
AHUF27	AH1N-27	EMERGENCY DAMPERS	42,000	X	24"x24"x6"	60%	11	0.35"	1.0"	CAMFL/FARR	OPN11	1,2,3		

MECHANICAL NOTES:
1. PROVIDE PREFILTERS WITH ANGLED RACK TO REDUCE FACE VELOCITY BELOW 500 FPM DURING HIGHER AIRFLOW BACKFLOPPED OPERATION AND MINIMIZE PRESSURE DROP.
2. INCLUDE MAGNETIC GAUGE, IN ADDITION TO DIGITAL PRESSURE SENSORS PROVIDED BY CONTRACTOR, TO MEASURE PRESSURE DROP ACROSS FILTERS.
3. PROVIDE CONSTRUCTION DETAILS FOR EACH FILTER AND PROVIDE WITH COMPLETE SET OF EXTRA FILTERS (FOR A EXTRA PREFILTERS).
4. FILTER CONDITIONS SHOWN ARE FOR FULL BYPASS MODE OF OPERATION AT 80,000 CFM. LOWER FLOW NORMAL OPERATION WILL RESULT IN LOWER VELOCITY AND PD.

AIR HANDLING UNIT — FINAL FILTER SCHEDULE

MECHANICAL (234.33)														
EQUIPMENT TAG	AHU SERVED	TYPE	CFM	NUMBER OF VAVS	SIZE PER MODULE (IN. x IN.)	EFFICIENCY (%)	MERV RATING	APD CLEAN (IN W.C.)	APD AT 50% LOADING (IN W.C.)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES		
AH11-11	AH11-11	EMERGENCY DAMPERS	21,000	14	X	24"x24"x12"	90-95%	1.4	0.35"	CAMIL-FARR	120H	1,2,3,4		
AH11-19	AH11-19	HEPA	36,000/60,000	X	24"x24"x12"	99-99%	18	1.25"	1.75"	CAMIL-FARR	120H	1,2,3,4		
AH11-20	AH11-20	HEPA	24,000/60,000	X	24"x24"x12"	99-99%	18	1.25"	1.75"	CAMIL-FARR	120H	1,2,3,4		
AH11-27	AH11-27	V-MINIFLAP	40,000	X	24"x24"x12"	90-95%	14	0.35"	1.25"	CAMIL-FARR	120H-EX	1,2,3		

MECHANICAL NOTES:
1. INCLUDE FULL MOUNTING RACK WITH CLAMPING MECHANISMS AT EACH CORNER, OR EDGE, FOR FULL PERMITTER SUPPORT. HEPA FILTER RACKS TO HAVE KNEE DEE SEAL.
2. PROVIDE MAGNETIC GAUGE, IN ADDITION TO DIGITAL PRESSURE SENSORS PROVIDED BY CONTRACTOR, TO MEASURE PRESSURE DROP ACROSS FILTERS.
3. PROVIDE CONSTRUCTION DETAILS FOR EACH FILTER AND PROVIDE WITH COMPLETE SET OF EXTRA FILTERS (FOR A EXTRA PREFILTERS).
4. BALANCING CONTRACTOR SHALL MEASURE LEAKAGE AROUND PERIMETER OF EACH FINAL FILTER AND PROVIDE READINGS WITH BALANCING REPORT FOR REVIEW BY ENGINEER.
5. FILTER CONDITIONS SHOWN ARE FOR FULL BYPASS MODE OF OPERATION AT 80,000 CFM. LOWER FLOW NORMAL OPERATION WILL RESULT IN LOWER VELOCITY AND PD.

AIR HANDLING UNIT — COOLING COIL SCHEDULE — CHILLED WATER

MIN HANDLING UNIT - COOLING COIL SCHEDULE - CHILLED WATER														
MECHANICAL (2382.16)														

MECHANICAL NOTES:
1. CONTRACTOR TO PROVIDE ADDITIONAL FIELD MEASUREMENTS TO CONFIRM THAT RACK, AND DOUBLE PITCHED DRAIN PAN, WILL HAVE ENOUGH CLEARANCE WITH EXISTING UNIT CASING.
2. REFER TO DETAILS FOR ALL PIPING COMPONENTS, DRAIN PANS, AND SUPPORT RACK DETAILS REQUIRED FOR COMPLETE INSTALLATION.
3. COOLING COILS SHALL BE PROVIDED WITH 304 STAINLESS STEEL CASINGS AND RACK. CONFIRM THAT ALL MOUNTING HARDWARE IS ALSO CORROSION RESISTANT.
4. SURGERY UNITS #19 AND #20 BOTH SHALL BE PROVIDED WITH AIRFLO BLACK CONTROL DAMPERS FOR PARTIAL BYPASS AROUND PREHEAT COILS DURING BACKFLOPPED MODE OF OPERATION. REFER TO MANUFACTURER DRAWINGS.
5. COOLING COILS FOR AH2N-20 ARE SHOWN WITH 2-VALVES. LOWER CAPACITY INDICATE NORMAL OPERATING CONDITION. HOWEVER, COILS SHALL BE SIZED FOR HIGHER CAPACITY VALUE TO ALLOW SWITCHING WITH AH2N-19.

AIR HANDLING UNIT — HEATING COIL SCHEDULE — STEAM INTEGRAL FACE/BYPASS

AIR HANDLING UNIT – HEATING COIL SCHEDULE – STEAM INTEGRAL FACE/BYPASS														
MECHANICAL (238216)														
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MECHANICAL NOTES:
1. PROVIDE COILS FOR 100% O.A. DURING SMOKE PURGE. PROVIDE 1/3 AND 2/3 CONTROL VALVES WITH SMALLER VALVE ONLY OPERATION DURING NORMAL MINIMUM O.A. INTAKE.
2. SURGERY UNITS #19 AND #20 BOTH SHALL BE PROVIDED WITH AIRFLO BLACK CONTROL DAMPERS FOR PARTIAL BYPASS AROUND PREHEAT COILS DURING BACKFLOPPED MODE OF OPERATION.
3. SURGERY UNITS #19 AND #20 BOTH SHALL ALLOW DISCHARGE TEMPERATURE TO DECREASE DOWN TO 45 DEGREES (40) PRIOR TO EXHAUSTING UNIT. SEE SEQUENCE OF OPERATIONS.

AIR HANDLING UNIT — SUPPLY FAN SCHEDULE

MECHANICAL (233416)															
EQUIPMENT TAG	AHU SERVED	# OF FANS	TYPE	CLASS	CFM	ESP (IN W.C.)	TOTAL SP (IN W.C.)	WHEEL DIAMETER (IN)	VFC (YES/NO)	FAN RPM	BHP	DRIVE TYPE (BELT/DIRECT)	MANUFACTURER	MANUFACTURER ALTERNATE #	MECHANICAL NOTES
AH1N-11	AH1N-11	4 or 3	FAN	ARRAY	21,000 (total)	2.5"	6"	16"	YES	3,250/2179	71/8.8	DIRECT	FANWALL	16-100-21ST	ACOUSTFLO 3-886A1600 2,3,4,5,6
AH1N-19	AH1N-19	12 or 4	FAN	ARRAY	60,000 (total)	3.0"	6"	16"	YES	4,843/2366	71/9.8	DIRECT	FANWALL	16-100-21ST	ACOUSTFLO ACIO2 5W 1,3,4,5,6
AH1N-20	AH1N-20	12 or 4	FAN	ARRAY	60,000 (total)	3.0"	6"	16"	YES	4,843/2366	71/9.8	DIRECT	FANWALL	16-100-21ST	ACOUSTFLO ACIO2 5W 1,3,4,5,6
AH1N-27	AH1N-27	6 or 3	FAN	ARRAY	42,000 (total)	2.5"	6"	22"	YES	3,272/1861	94/17.4	DIRECT	FANWALL	22-80-21ST	ACOUSTFLO 3-886A1600 2,3,4,5,6
MECHANICAL NOTES:															
1. THIS SCHEDULE REPRESENTS BACKUP CONDITION OF BOTH UNITS. NORMAL OPERATING CONDITION FOR AH1N-19 APPROX 36,000 CFM AND FOR AH1N-20 IS 24,000 CFM. CLASS #10/HUMIDIFIER IS TO BE SEED ON NORMAL OPERATING AIRFLOW.															
2. THIS SCHEDULE REPRESENTS BACKUP CONDITION OF BOTH UNITS. NORMAL OPERATING CONDITION FOR AH1N-19 APPROX 36,000 CFM AND FOR AH1N-20 IS 24,000 CFM. CLASS #10/HUMIDIFIER IS TO BE SEED ON NORMAL OPERATING AIRFLOW.															
3. FAN REUNDANCY IS REQUIRED FOR NORMAL OPERATING CONDITIONS ONLY. FOR ALL AHUs (refer to section #1 on main schedule) BACKUPED CONDITION WILL NOT REQUIRE FAN REUNDANCY.															
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5. PROVIDE VIBRATION SPOORER FROM FACTORY WITH SINGLE POINT OF CONNECTION FOR MAIN POWER SUPPLY BY ELECTRICAL CONTRACTOR. PROVIDE VIBRATION SPOORER FROM FACTORY WITH SINGLE POINT OF CONNECTION FOR MAIN POWER SUPPLY BY ELECTRICAL CONTRACTOR.															
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MECHANICAL NOTES:
1. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION OF BOTH UNITS. NORMAL OPERATING CONDITION FOR AH2N-19 APPROX 36,000 CFM, AND FOR AH2N-20 IS 24,000 CFM. COILS/HUMIDIFIER TO BE SIZED ON NORMAL OPERATING AIRFLOW.
2. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION FOR SPARE FUTURE CAPACITY. PRESENT OPERATING CONDITIONS FOR AH1N-11 IS 13,500 CFM, AND FOR AH1N-27 IS 30,000 CFM. COILS/HUMIDIFIER TO BE SIZED FOR FUTURE ALSO.
3. FAN REDUNDANCY IS REQUIRED FOR NORMAL OPERATING CONDITIONS ONLY FOR ALL AHUS (refer to note #1 on AHU REDUNDANCY). BACKFLOPPED CONDITION WILL NOT REQUIRE FAN REDUNDANCY.
4. PROVIDE EACH FAN WITH ITS OWN DECATIVE VFD SPEED CONTROLLER. ALL VFDs TO BE MOUNTED WITHIN VENTED ENCLOSURE WITH REMOTE LCD PANELS THAT DISPLAY DRIVE CONDITION OF ENCLOSURE.
5. PROVIDE VFD ENCLOSURE PREWIRED FROM FACTORY WITH SINGLE POINT OF CONNECTION FOR MAIN POWER SERVICE BY ELECTRICAL CONTRACTOR. INCLUDE REMOTE DISCONNECT FUSES INSIDE PANEL FOR SERVICE OF EACH VFD.
6. ALL FAN SHALL BE PROVIDED WITH INDIVIDUAL BACKFLOPP DAMPERS. CONTROLS CONTRACTOR TO AUTOMATE FAN OPTIMIZATION TO ALLOW EQUAL RUN TIME ON EACH FAN IF SOME ARE NOT REQUIRED DURING NORMAL OPERATION.

ELECTRICAL NOTES:
1. SEE SUPPLY FAN SCHEDULE AND RETURN FAN SCHEDULE FOR ELECTRICAL INFORMATION.

GENERAL NOTES:
A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE SCHEDULE.
C. VFDs TO HAVE INTEGRAL DISCONNECT UNLESS NOT OTHERWISE.

AIR HANDLING UNIT — RETURN FAN SCHEDULE

MECHANICAL (233416)															
EQUIPMENT TAG	AHU SERVED	TYPE	CLASS	CFM	ESP (IN W.C.)	TOTAL SP (IN W.C.)	WHEEL DIAMETER (IN)	VFC (YES/NO)	FAN RPM	BHP	DRIVE TYPE (BELT/DIRECT)	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES	
AH11	AH11W-11	N/A	existing	17,500	2.0'	2.25'	40"	YES(see)	700	8.2	BELT	existing	existing	1,2	
AH19	AH19W-19	2	PLENUM	II	26,000	2.25'	2.50'	40"	YES	1068	19.1	BELT	BARRY BLOWER	ESP 402	2,3,4
AH20	AH20W-20	2	PLENUM	II	16,000	2.25'	2.50'	40"	YES	968	19.1	BELT	BARRY BLOWER	ESP 402	2,3,4

MECHANICAL NOTES:
1. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION OF BOTH UNITS. NORMAL OPERATING CONDITION FOR AH2N-19 APPROX 36,000 CFM, AND FOR AH2N-20 IS 24,000 CFM. COILS/HUMIDIFIER TO BE SIZED ON NORMAL OPERATING AIRFLOW.
2. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION FOR SPARE FUTURE CAPACITY. PRESENT OPERATING CONDITIONS FOR AH1N-11 IS 13,500 CFM, AND FOR AH1N-27 IS 30,000 CFM. COILS/HUMIDIFIER TO BE SIZED FOR FUTURE ALSO.
3. FAN REDUNDANCY IS REQUIRED FOR NORMAL OPERATING CONDITIONS ONLY FOR ALL AHUS (refer to note #1 on AHU REDUNDANCY). BACKFLOPPED CONDITION WILL NOT REQUIRE FAN REDUNDANCY.
4. PROVIDE EACH FAN WITH ITS OWN DECATIVE VFD SPEED CONTROLLER. ALL VFDs TO BE MOUNTED WITHIN VENTED ENCLOSURE WITH REMOTE LCD PANELS THAT DISPLAY DRIVE CONDITION OF ENCLOSURE.
5. PROVIDE VFD ENCLOSURE PREWIRED FROM FACTORY WITH SINGLE POINT OF CONNECTION FOR MAIN POWER SERVICE BY ELECTRICAL CONTRACTOR. INCLUDE REMOTE DISCONNECT FUSES INSIDE PANEL FOR SERVICE OF EACH VFD.
6. ALL FAN SHALL BE PROVIDED WITH INDIVIDUAL BACKFLOPP DAMPERS. CONTROLS CONTRACTOR TO AUTOMATE FAN OPTIMIZATION TO ALLOW EQUAL RUN TIME ON EACH FAN IF SOME ARE NOT REQUIRED DURING NORMAL OPERATION.

ELECTRICAL NOTES:
1. SEE SUPPLY FAN SCHEDULE AND RETURN FAN SCHEDULE FOR ELECTRICAL INFORMATION.

GENERAL NOTES:
A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE SCHEDULE.
C. VFDs TO HAVE INTEGRAL DISCONNECT UNLESS NOT OTHERWISE.

AIR HANDLING UNIT — HUMIDIFIER SCHEDULE

AHUR 19	20 HP(2)	480	3	VFD	DV 23	UNIT	DV 23	60A	50A	1	DV 26/28/26	UNIT	DH21-1	8.9	(v2) 3/C.F. = 3/80 & #10 GND	1.2,4
AHUR 20	25 HP(2)	480	3	VFD	DV 23	UNIT	DV 23	60A	50A	1	DV 26/28/26	UNIT	DH13-1	9.11	(v2) 3/C.F. = 3/80 & #10 GND	1.2,4
AHUR 27	20 HP	480	3	VFD	DV 23	UNIT	DV 23	60A	50A	1	DV 26/28/26	UNIT	DH33-1	16	3/C.F. = 3/80 & #10 GND	1.3,4

GENERAL ELECTRICAL NOTES:
A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE - CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.

CONTROLLER TYPES:
VFD = VARIABLE FREQUENCY MOTOR CONTROLLER
MAGS = MAGNETIC STARTER
MVS = MOTOR MATED SWITCH (WITHOUT OVERLOADS)
CP = CONTROL PANEL
VFD/MAGS = VFD WITH BYPASS OFFLOAD AND EXTERNAL STARTER

MECHANICAL NOTES:
1. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION OF BOTH UNITS. NORMAL OPERATING CONDITION FOR AH2N-19 APPROX 36,000 CFM, AND FOR AH2N-20 IS 24,000 CFM. COILS/HUMIDIFIER TO BE SIZED ON NORMAL OPERATING AIRFLOW.
2. TOTAL AIRFLOW REPRESENTS BACKFLOPPED CONDITION FOR SPARE FUTURE CAPACITY. PRESENT OPERATING CONDITIONS FOR AH1N-11 IS 13,500 CFM, AND FOR AH1N-27 IS 30,000 CFM. COILS/HUMIDIFIER TO BE SIZED FOR FUTURE ALSO.
3. FAN REDUNDANCY IS REQUIRED FOR NORMAL OPERATING CONDITIONS ONLY FOR ALL AHUS (refer to note #1 on AHU REDUNDANCY). BACKFLOPPED CONDITION WILL NOT REQUIRE FAN REDUNDANCY.
4. PROVIDE EACH FAN WITH ITS OWN DECATIVE VFD SPEED CONTROLLER. ALL VFDs TO BE MOUNTED WITHIN VENTED ENCLOSURE WITH REMOTE LCD PANELS THAT DISPLAY DRIVE CONDITION OF ENCLOSURE.
5. PROVIDE VFD ENCLOSURE PREWIRED FROM FACTORY WITH SINGLE POINT OF CONNECTION FOR MAIN POWER SERVICE BY ELECTRICAL CONTRACTOR. INCLUDE REMOTE DISCONNECT FUSES INSIDE PANEL FOR SERVICE OF EACH VFD.
6. ALL FAN SHALL BE PROVIDED WITH INDIVIDUAL BACKFLOPP DAMPERS. CONTROLS CONTRACTOR TO AUTOMATE FAN OPTIMIZATION TO ALLOW EQUAL RUN TIME ON EACH FAN IF SOME ARE NOT REQUIRED DURING NORMAL OPERATION.

ELECTRICAL NOTES:
1. SEE SUPPLY FAN SCHEDULE AND RETURN FAN SCHEDULE FOR ELECTRICAL INFORMATION.

GENERAL NOTES:
A. WHEN THE CONTROLLER TYPE IS A VFD OR MAGNETIC STARTER, REFER TO THE VARIABLE FREQUENCY DRIVE CONTROLLER SCHEDULE OR THE MAGNETIC STARTER SCHEDULE FOR MORE INFORMATION.
B. VFD EQUIPMENT SHALL HAVE STANDARD SHORT-CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN IN THE SCHEDULE.
C. VFDs TO HAVE INTEGRAL DISCONNECT UNLESS NOT OTHERWISE.

AIR HANDLING UNIT — HUMIDIFIER SCHEDULE

AH1N-01	AH1N-11	STEAM-10	21,000/60,000	43	212	30	X	X	X	X	1.2					
AH1N-02	AH1N-19	STEAM-10	38,000/60,000	49	193	30	X	X	X	X	1.2	DR-STEEM	ULTRA-SORB	DR-STEEM	2005	1,2,3
AH1N-03	AH1N-26	STEAM-10	34,000/60,000	40	395	428	X	X	X	X	1.2	DR-STEEM	ULTRA-SORB	DR-STEEM	2005	1,2,3
AH1N-04	AH1N-26	DIRECT INJECT	42,000	54	44	425	30	X	X	X	X	N/A	X	X	X	1.2

MECHANICAL NOTES:
1. COORDINATE MANIFOLD LENGTH WITH CONTRACTOR PRIOR TO DELIVERY TO INSURE Adequate CLEARANCES NEEDED FOR CONTROLS AND PIPING CONNECTIONS.
2. VERIFY THAT DRAIN PAN EXTENDS WELL BEYOND CALCULATED ABSORPTION DISTANCE LISTED ON SCHEDULE.
3. STEAM-TO-STEAM PREVENTION. ALL STEAM-TO-STEAM PREVENTION WILL BE FED WITH WATER THROUGH DRPZ VALVE OR DRPZ VALVE. REFER TO DRAWINGS FOR INSTALLATION.