

FILTER SCHEDULE

UNIT NUMBER	LOCATION	EXHAUST FAN #	SERVICE	CFM	DESCRIPTION	EFFICIENCY		RESISTANCE				NOTES
						PRE-FILTER	FINAL FILTER	PRE-FILTER	FINAL FILTER	PRE-FILTER	FINAL FILTER	
FLT-1	LEVEL 5	EX-3	ISOLATION EXHAUST	1900	BG1-1H1W-20GF-304-03	60-65	99.99	.30	.60	1.4	2.5	① ② ③
FLT-2	LEVEL 5	EX-4	ISOLATION EXHAUST	1900	BG1-1H1W-20GF-304-03	60-65	99.99	.30	.60	1.4	2.5	① ② ③

- NOTES:
- BAG IN / BAG OUT UNITS BASED ON FLANDERS / CSC
 - UNITS TO HAVE ON INLETS & OUTLETS BUBBLE TYPE DAMPERS, WITH MOTORIZED ACTUATOR
 - PRE-FILTERS TO BE FLANDERS 30X FILTERS
 - HEPA FILTERS TO BE FLANDERS TYPE ALPHA 2000 (HIGH CAPACITY) EFFICIENCY 99.99@3 MICRONS
 - CARBON FILTER TO BE FLANDERS CINERSORB, M#AG-GG12-101-NP(NUCLEAR GRADE CARBON)
 - FLT-2 TO BE 100% STAND BY.

GRAVITY INTAKE/RELIEF HOOD SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	STYLE	CFM	SP (IN. H ₂ O)	THROAT AREA (SQ. FT.)	THROAT SIZE (IN.)	HEIGHT ABOVE ROOF (IN.)	HOOD DATA				SIMILAR TO
									W (IN.)	L (IN.)	H (IN.)	# OF TIERS	
GHEL-1	ROOF	PATIENT ELEV. 1&2	RELIEF VENTILATOR	-	0.10	7.4	36"	50"	-	-	-	-	COOK MODEL PR 36
GHEL-2	ROOF	SERVICE ELEV. 1&2	RELIEF VENTILATOR	-	0.10	10.0	42"	52"	-	-	-	-	COOK MODEL PR 42

- NOTES:
- PROVIDE NORMALLY OPEN DAMPERS HELD SHUT BY ATC DURING NORMAL OPERATION. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM AND SMOKE DETECTOR IN ELEVATOR SHAFT TO OPEN UPON SENSING OF SMOKE. PROVIDE 2'-0" HIGH ROOF CURB WITH AUTOMATED DAMPERS INSTALLED IN ROOF CURB.

DUPLIX FUEL OIL PUMP SCHEDULE

UNIT NO.	LOCATION	SERVICE	PUMP DATA (DUPLIX)				V	PH	HZ	SELECTION BASED ON	REMARKS	EMERGENCY POWER
			FUEL #2	CAPACITY (GPM)	DISCHARGE PRESSURE (PSI)	HP						
FOP-1	GROUND LEVEL MER	BOILERS	700	50	3/4	1140	480	3	60	PREFERRED UTILITIES U-203		YES

- NOTES:
- PROVIDE TRANSITIONS AS REQUIRED TO MATCH ATTENUATOR SIZES.

SOUND ATTENUATOR SCHEDULE

UNIT NUMBER	LOCATION	SYSTEM	CFM	MAX. ΔPRES. (IN.)	TOTAL UNIT SIZE (IN.)			DIL		SIMILAR TO	NOTES SEE BELOW
					W	H	L	250 HZ	500 HZ		
SA-1	PENTHOUSE	AHU-1 RETURN	62,000	.25	96	48	3'-0"	9	13	IAC TYPE HLFM	
SA-2	PENTHOUSE	AHU-2 RETURN	47,200	.25	96	42	3'-0"	9	13	IAC TYPE HLFM	
SA-3	FIRE	EX-17	400		24	12	3'-0"	15	25	IAC TYPE ES	
SA-4	GROUND LEVEL	EX-23	400		14	8	3'-0"	15	25	IAC TYPE ES	

- NOTES:
- PROVIDE TRANSITIONS AS REQUIRED TO MATCH ATTENUATOR SIZES.

AIR COOLED CONDENSER

UNIT NUMBER	CORRESPONDING EQUIPMENT NUMBER	AMBIENT AIR TEMPERATURE (°F)	ACCESSORIES						ELECTRICAL				REMARKS	SEE NOTES BELOW	EMERGENCY POWER			
			NUMBER OF FANS	HP EACH FAN	MAX. FIN SPACING (FT)	HOT GAS BY-PASS	LOW AMBIENT CONTROLS	LOW TEMPERATURE START	ANTI RECYCLING CONTROLS	REFRIGERANT SERVICE VALVES	VOLUME	PHASE				HZ	FULL LOAD AMPS	
ACC-1	PCH-1	90	2	1 1/2	10	YES	YES	YES	YES	YES	YES	460	3	60	6.6	FILTRINE MODEL WSC-022	1	YES

- NOTES:
- UNIT SHALL BE MOUNTED ON CONCRETE PAD.

PROCESS CHILLER SCHEDULE

UNIT NUMBER	NOM TONS	ELECTRICAL DATA		EVAPORATOR				CONDENSER				COMPRESSOR DATA				SIMILAR TO	NOTES SEE BELOW	EMER. POWER		
		VOLTS (3Ø)	MAX. CURR. AMP.	EWI °F	LWT °F	GPM	FLUID	# OF PASSES	ΔPRESS FT. H ₂ O	FOULING FACTOR	AMBIENT TEMP. °F	CFM	NUMBER OF FANS	QTY	HP				STAGES UNLOAD (TOT)	KW/HP (EA)
PCH-1	12.5	460	70.1	55	45	30	WATER	-	-	-	-	4	2	10	-	-	-	FILTRINE	-	YES

- NOTES:
- UNIT TO BE INSTALLED IN MECHANICAL ROOM
 - 400V PROFLEX MOTOR
 - PACKAGE UNIT SHALL INCLUDE A DIFFERENTIAL PRESSURE BYPASS FOR FLOW CONTROL
 - PROCESS CHILLER SELECTION BASED ON FILTRINE MODEL (PCH-1000-12-AR-RED)
 - PROCESS CHILLER SHALL HAVE STAND BY PUMP
 - UNIT SHALL BE INSTALLED ON ANTISEISSURE PAD

STEAM PRESSURE REDUCING VALVE SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	INLET TEMP °F	INLET PSIG	OUTLET PSIG	LBS/HR	SIMILAR TO	SILENCER	NC REQUIREMENT	NOTES SEE BELOW
PRV-1	BOILER RM	SYSTEM	307	60	15	11,000	SPENCE 4" ED	YES	-	1
PRV-2	BOILER RM	SYSTEM	307	60	15	4,000	SPENCE 2-1/2" ED	YES	-	2

- NOTES:
- 2/3 STATION
 - 1/3 STATION

AIR FLOW MEASURING STATION

UNIT NUMBER	DUCT SIZE	FLOW				SIMILAR TO	REMARKS
		PRESENT MAX CFM	MIN CFM	FUTURE MAX CFM	MIN CFM		
FMS-1	96x54	81,325	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-1 SUPPLY
FMS-2	84x54	31,000	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-1 RETURN
FMS-3	84x54	31,000	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-1 RETURN
FMS-4	30x14	5,025	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-1 SUPPLY STATIC SENSOR
FMS-5	96x54	81,175	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-2 SUPPLY
FMS-6	84x54	23,600	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-2 RETURN
FMS-7	84x54	23,600	-	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-2 RETURN
FMS-8	36x14	5,325	5,350	-	-	VOLU PROBE/VIS STATION BY AIR MONITOR CO.	AHU-2 SUPPLY STATIC SENSOR

DEAERATOR

NUMBER	CAPACITY GALLONS	ASME PRESSURE RATING	MINIMUM LEG HEIGHT	DIMENSIONS (IN)			CONTROLS	PUMPS (SEE PUMP SCHEDULE)	OPERATING PRESSURE PSIG	RELIEF VALVE SETTING	CONNECTIONS	SPARE CONNECTIONS	ACCESSORIES	SIMILAR TO
DEA-1	900	125	5'-0"	129	75	120	UNIT MOUNTED	UNIT MOUNTED	5	25	SEE DRAWINGS	6 Ø 2" PLUGGED	S/S VENT CONDENSER	SEE NOTE 1

- NOTES:
- CLEAVER BROOKS SPRAYMASTER DEARATOR SIZE SM-45

VARIABLE FREQUENCY DRIVE SCHEDULE

NUMBER	DRIVEN EQUIPMENT	MHP	DRIVE TYPE	NUMBER OF PULSES INPUT	5% LINE REACTOR	BYPASS	LOGS OVERSEEN	ADDITIONAL DEVICES TO REDUCE HARMONICS (CURRENT AND VOLTAGE)	SIMILAR TO	REMARKS
VFD-1	HWP-1	20.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-2	HWP-2	20.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-3	CHP-1	30.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-4	CHP-2	30.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-5 (FUTURE)	CHP-3	30.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-6	AHU-1 SUPPLY	100.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-7	AHU-1 SUPPLY	100.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-8	AHU-1 RETURN	40.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-9	AHU-1 RETURN	40.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-10	AHU-2 SUPPLY	100.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-11	AHU-2 SUPPLY	100.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-12	AHU-2 RETURN	40.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-13	AHU-2 RETURN	40.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-14	AHU-3	15.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-15	EX-3 ISOLATION EXH.	3.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-16	EX-4 ISOLATION EXH.	3.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-17	EX-10 KITCHEN	10.0	PWM	6 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-18	CT-1	30.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED
VFD-19 (FUTURE)	CT-2	-	-	-	-	-	-	-	-	-
VFD-20 (FUTURE)	CT-3	-	-	-	-	-	-	-	-	-
VFD-21	AHU-4	3.0	PWM	18 OR MORE	YES	YES	YES	AS REQUIRED TO MEET THE SPECIFIED	-	PASSIVE FILTERS ARE NOT PERMITTED

SURGE TANK

NUMBER	CAPACITY GALLONS	ASME PRESSURE RATING	MINIMUM LEG HEIGHT	LENGTH	WIDTH	HEIGHT	CONTROLS	PUMPS (SEE PUMP SCHEDULE)	OPERATING PRESSURE PSIG	MIN. VENT SIZE INCHES	CONNECTIONS	SPARE CONNECTIONS	ACCESSORIES	SIMILAR TO
ST-1	900	-	48"	124"	48"	48"	-	-	-	3	3" PC, 1/4" CW	(2) 3"	(1)	CLEAVER BROOKS SUR-300

- NOTES:
- PROVIDE WITH WATER LEVEL CONTAINER WITH MAKE UP VALVE. REFER TO HVAC SPECIFICATION SECTION 1551B.

FLASH TANK SCHEDULE

NUMBER	LOCATION	INLET PSIG	OUTLET PSIG	INLET LBS/HR	DIAMETER	LENGTH	LPS	LPR	SAFETY RELIEF VALVE	BACK PRESSURE VALVE	PIPE SIZES (NS)			REMARKS
											LPS	LPR	MPR	
FT-1	BOILER ROOM	60	5	6,500	24"	48"	-	5,800	-	-	2"	2"	3"	VENT TO ATMOSPHERE

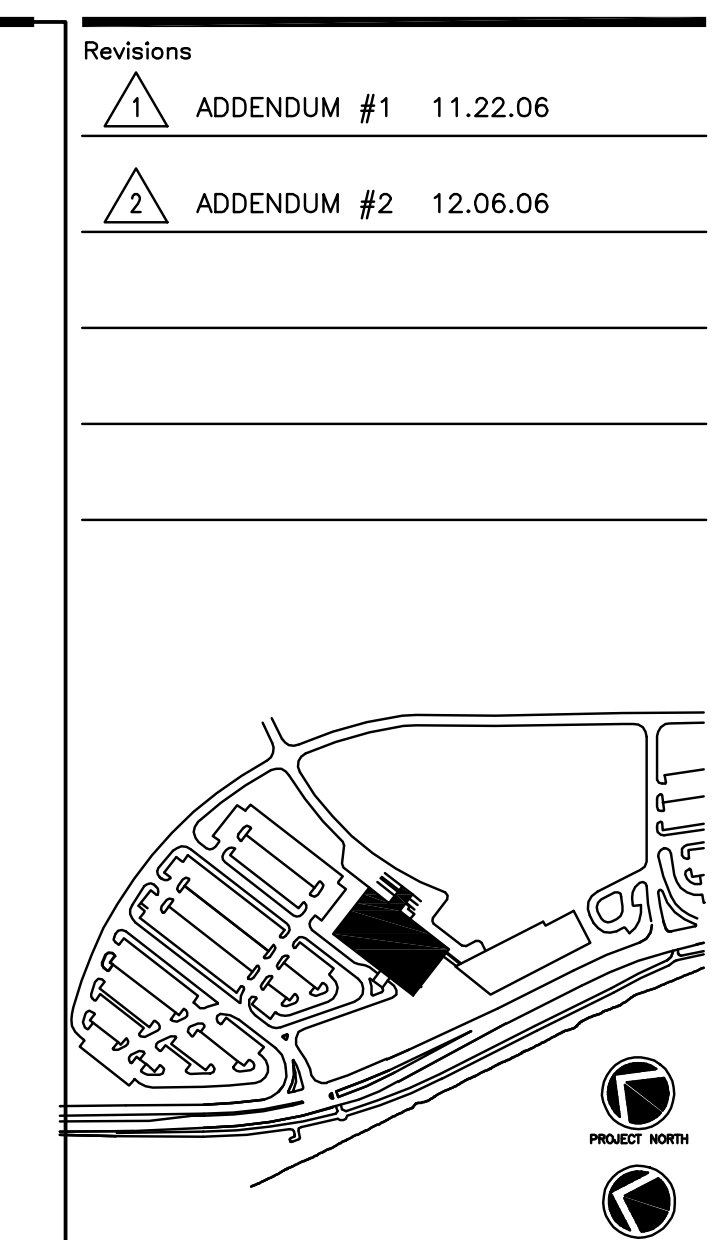
- NOTES:
- SIMILAR TO WESSELS COMPANY FTA 80
 - PROVIDE TANK WITH INTERNAL SPACE TUBE.

SPECIALIZED COMPUTER ROOM ROOM AIR CONDITIONING SYSTEM SCHEDULES

UNIT NO.	NOMINAL TONS	SPACE SERVED	SPACE FACE AREA (SQ. FT.)	TOTAL CFM	E.S.P. (IN. H ₂ O)	FANS QTY/HP (EA)	TOTAL HEAT (MBH)	SENSIBLE HEAT (MBH)	EVAPORATOR COIL				FILTER				HOT WATER REHEAT				HUMIDIFIER				ELECTRICAL DATA (TOT.)				MODEL NO. (BASED ON LIEBERT)	EMERGENCY POWER	UNIT STYLE	REMARK
									ROW	FACE AREA (SQ. FT.)	GPM	ΔP	(ASHRAE 52-78)	MEH	GPM	ZIP (N H ₂ O)	LBS/HR	STEAM (PSIG)	KW	V	PH	HZ	F.L.A.									
CAC-1	-	MRI EQUIP.	72/60	5250	0.3	1	2.0	80.7	80.3	3	11.7	17.6	11.7	18x24 (4)	70	5	8.1	14	5	-	208	1	60	7.5	5	YES	-	SEE NOTES 2,5,6,7,8,9,10				
CAC-2	2	DEMARC. RM.	72	750	-	2	0.20	23.5	19.5	3	3.9	5.1	2.3	-	-	-	-	-	-	-	1.3	208	1	60	28.3	4	YES	-	SEE NOTES 2,3,4,6			

- NOTES:
- TWO SPEED
 - SELECTION BASED ON LOW SPEED
 - PROVIDED WITH CONDENSATE PUMP WITH 60 GPM CAPACITY @ 10 FT HD
 - MODEL BASED ON LIEBERT DATAMATE DME027E W/HUMIDIFIER & REHEAT
 - MODEL BASED ON LIEBERT DELUXE SYSTEM 3 PH/UH147C
 - PROVIDE W/ WATER DETECTION SYSTEM.
 - PROVIDE W/ OPTIONAL STEAM GRID
 - PROVIDE W/ OPTIONAL HOT WATER REHEAT.
 - PROVIDE PLENUM W/ GRILLE
 - PROVIDE W/ CONDENSATE PUMP.

- NOTES:
- PROVIDE CAC-1 WITH SMOKE DETECTOR. CAC-1 TO SHUT DOWN UPON ACTIVATION OF SMOKE DETECTOR.



Revisions

- ADDENDUM #1 11.22.06
- ADDENDUM #2 12.06.06

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It is the responsibility of the Construction Manager/General Contractor and all Sub-Contractors to verify all dimensions and accept conditions of prior work by related trades before proceeding with any work.

Date
 11/10/06 Final-Issued for Construction

Drawn By
 EPV

Scale
 N.T.S.

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Project Number
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Drawing Title and Number
 HVAC
 SCHEDULES

H0.03