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CHILLED WATER AIR HANDLING UNIT SCHEDULE

TAG	TOT CFM	MAX O4 CFM	ESP	SERVES	GM	TOT MBH	ENT H2O -F	LVG H2O -F	ENT AIR -F (OB)	ENT AIR -F (WB)	LVG AIR -F (OB)	LVG AIR -F (WB)	ELECTRIC HEATING SECTION	ELEC VOLT/PH	MOTOR HP	REMARKS
AHU-1	2000	900	0.60"	CAGES	24.0	120.0	44	54	87.1	73.9	54.6	25.0	50.0	460/3	2.0	--
AHU-2	6000	1200	2.0"	1ST/2ND FLS	56.0	280.0	44	54	83.6	69.4	54.2	7.5	36.0	460/3	7.5	--

NOTE: UNIT SHALL HAVE THE FOLLOWING FEATURES:
 DOUBLE WALL CONSTRUCTION WITH FIBERGLASS INSULATED PANEL SYSTEM, DOUBLE-SLOPED AG DRAIN PAN, DRAIN-THROUGH CONFIGURATION, HIGH-EFFICIENCY INVERTER-DUTY FAN MOTORS, SINGLE-POINT POWER CONNECTIONS, INTEGRATED (FACTORY-MOUNTED) DDC-CONTROLS, SENSORS, AND DEVICES.
 AHU-1 HEATING SECTION SHALL BE EXTERNALLY-MOUNTED DUCT HEATER. AHU-2 HEATING SECTION IS DUCT MOUNTED HEATER IN O4 DUCTWORK.

MECHANICAL LEGEND

ABBREVIATIONS	SYMBOLS
ABV ABOVE FINISHED FLOOR	
AKR MEDICAL OR COMPRESSED AIR BACKDRAFT DAMPER	
BFP BACKDRAFT PREVENTER	
BLM BOTTOM OF DUCT	
BOB BOTTOM OF PIPE	
CAP CAPACITY	
CD CONDENSER WATER RETURN	
CDR CONDENSER WATER SUPPLY	
CDS CLIBIC FEET PER MINUTE	
CLM CEILING OR COOLING (CONTEXT)	
CO CLEANOUT	
CONT CONTINUOUS OR CONTINUATION (CONTEXT)	
CRS CONDENSER WATER RETURN	
CSR CONDENSER WATER SUPPLY	
DAS DRY BALLS (TEMP) PRESERVEES	
DEG DOWN	
DN DOWN	
DNG DRAINAGE	
ELEC ELECTRIC OR ELECTRICAL (CONTEXT)	
ENG ENGINEERING	
ERT EXISTING	
EXIST EXISTING	
FD FLOOR DRAIN (RUBBER), FIRE DAMPER (HVAL)	
FDC FLOOR DRAIN CONNECTION	
FDM FLOOR DRAIN MAIN	
FEG FEET PER MINUTE	
FT FEET	
GPM GALLONS PER MINUTE	
GPB HOSE BIBER	
HB HEATING	
HDB HDB DRAIN	
HHS HHS	
HM HERSZ (FREQUENCY)	
HMR HERSZ (FREQUENCY)	
HZ HZ	
IN INCHES INCLUDING (CONTEXT)	
INL INCHES INCLUDING (CONTEXT)	
KIL KILOWATT	
LAT LEAVING AIR TEMP	
LNT LEAVING WATER TEMP	
LTH THROUGH	
MECH MECHANICAL	
MKR MANUFACTURER	
MND MAND	
MNS NOT TO SCALE	
MID MOUNTED	
MIS MIS	
N2 N2	
O2 OXYGEN	
PD POUND PER SQUARE INCH (PRESSURE)	
PLG POUND PER SQUARE INCH (PRESSURE)	
RD ROOF DRAIN	
RIS REQUIRED	
REG RETURN GRILL	
REH RETURN GRILL	
SEC SECONDS	
SENS SENSIBLE	
SP SQUARE FOOT/FEET (AREA)	
SP5 SQUARE FOOT/FEET (AREA)	
SP6 SQUARE FOOT/FEET (AREA)	
SP7 SQUARE FOOT/FEET (AREA)	
THR THROUGH	
TRP THROUGH	
VAC VACUUM	
VERT VERTICAL	
WTR WITH	
WTH WITH	
WTHR WITHOUT	
WVB VENT BALL (TEMP)	
WVG VENT GAUGE (PRESSURE)	
WVP VENT PRESURE DROP	
WVS VENT SOURCE HEAT PUMP	

AIR COOLED CHILLER SCHEDULE

TAG	TONS	ENT H2O -F	ENT H2O -F	ENT H2O -F	# PASSES	FOUL FCTR	MAX PD	ELEC VOLT/PH	UNIT MON	REG MON	ERR NP/V	REFRIG	MODEL #	WEIGHTS (LBS) RIGGING / OTHER	REMARKS
CH-1	40	91.4	34.0	44.0	--	0.000/0.0	10.0	460/3	91.8	110.0	10.0	14.3	410A	3359 / 3377	SEE NOTES

NOTES:
 1. UNIT SHALL BE MOUNTED AT GRADE ON A STRUCTURAL SLAB.
 2. UNIT INCLUDES A-T-L STARTER, AND INTEGRATED VPF (VARIABLE PRIMARY FLOW) DDC CONTROLS.
 3. UNIT SHALL COME FULLY CHARGED AND FACTORY RUN-TESTED PRIOR TO DELIVERY AND INSTALLATION.

PUMP SCHEDULE

TAG	CFM	HEAD FT	SERVES	ELEC VOLT/PH	MOTOR HP	REMARKS
P-1	91.2	40	CHILLED WATER	460/3	2.0	B&G SERIES 1510-1-1/2AC, HIGH EFFICIENCY, INVERTER DUTY, TERC MOTOR
P-2	91.2	40	CHILLED WATER	460/3	2.0	B&G SERIES 1510-1-1/2AC, HIGH EFFICIENCY, INVERTER DUTY, TERC MOTOR
REC-1	5.0	20	DOMESTIC HW REIRC	120/1	1/12	B&G SERIES PL-30B, BRONZE CONSTRUCTION, MAINTENANCE-FREE MOTOR

NOTES:
 1. P-1 / P-2 - PROVIDE WITH HIGH-EFFICIENCY INVERTER DUTY MOTOR, TRIPLE DUTY VALVE, SUCTION DIFFUSER W/ STRAINER

TANK SCHEDULE

TAG	WEIGHT	TYPE	VOLUME	ACCEPT	REMARKS
COMP-1	--	VERTICAL DIAPHRAGM - PRESSURIZED	40	N/A	B&G SERIES B
T-1	--	STORAGE - INSULATED	100 GAL	N/A	THERMAL FLYWHEEL TANK

EXHAUST FAN SCHEDULE

TAG	CFM	ESP	TYPE	HP	DRIVE	ELEC	LOCATION	SERIES	GREENHECK MODEL	REMARKS
EF-1	800	0.20"	INLINE	1/6	DIR	120/1	CAGES	SO-100-A		--
EF-2	6000	0.25"	SIDEMALL	1/2	DIR	120/1	STAGING	SE2-20-427-A10		--
EF-3	6000	0.25"	SIDEMALL	1/2	DIR	120/1	BOAT STOR	SE2-20-427-A10		--
EF-4	240	0.25"	INLINE	1/20	DIR	120/1	1ST FL HEADS	SO-80-G		--
EF-5	500	0.25"	INLINE	1/15	DIR	120/1	2ND FLOOR 2ND FL HEADS	SO-95-G		--

ELECTRIC WATER HEATER SCHEDULE

TAG	TYPE	CFM	RECOVERY @ 90°F RISE	TOTAL KW	# OF ELEMENTS	ELEC VOLT/PH	LOCATION	REMARKS
WH-1	STORAGE	120	110 GPH	24.0	06	480/3	FIRST FLOOR	---
WH-2	LOWBOY	10	20 GPH	3.0	01	208/1	SECOND FLOOR	RHEM EGSPI0
WH-3	INSTANT	--	INSTANT	3.0	01	208/1	BREAK AREA	ETMAX SP3208

STANDBY LOSSES FROM UNITS SHALL COMPLY WITH ASHRAE 90.1, CURRENT EDITION.
 WH-1 SHALL HAVE MIN ENERGY FACTOR OF 0.93.

ELECTRIC UNIT HEATER SCHEDULE

TAG	TYPE	CFM	THROW AT 9' AFF	TOTAL KW	ELEC VOLT/PH	AMPS	REMARKS
UH-1	HORIZ	400	12'	3.3	480/3	4.0	USER ADJ STAT SET TO 55°F

UNITS ARE FOR OCCUPANT COMFORT AND SAFETY. FURNISH WITH ACCESSORY SUSPENSION KITS WALL-MOUNTED THERMOSTATS (24V), DISCONNECT SWITCH, STRATIFICATION THERMOSTAT, AND SUMMER FAN SWITCH.

VAV BOX SCHEDULE

TAG	TYPE	MIN CFM	COOLING MAX CFM	HEATING MAX CFM	TOTAL KW	# OF ELEMENTS	ELEC VOLT/PH	REMARKS
VAV 1-1	PRIMARY	200	600	300	3.0	1	277/1	LOCAL DDC CONTROLS
VAV 1-2	PRIMARY	300	750	450	5.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-1	PRIMARY	175	400	270	3.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-2	PRIMARY	400	800	500	5.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-3	PRIMARY	250	600	350	4.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-4	PRIMARY	500	1600	720	8.0	1	480/3	LOCAL DDC CONTROLS
VAV 2-5	PRIMARY	500	1000	650	6.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-6	PRIMARY	350	1200	500	5.0	1	277/1	LOCAL DDC CONTROLS

FURNISH WITH XXXV-24V TRANSFORMER, AND DDC THERMOSTAT CONTROLS WITH AUTO CHANGEOVER. PROVIDE LISTED ACCESSORY ELECTRIC HEATERS WITH VAV UNITS. UNIT CONTROLLERS SHALL HAVE DUAL-MAXIMUM SETPOINT FULLY PROGRAMMABLE CONTROLS BY SIEMENS.

MINI-SPLIT HPU SYSTEM SCHEDULE

TAG	MBH COOL	HEAT SEER	VOLT	PH	INDR. UNIT	LOCATION	MODEL (INDOOR / OUTDOOR)
AC-1	24.0	24.0	208	1Ø	--	SERVER	MITSU. PKA-A24FAL W/ PUJ-A24VHA-B5

NOTE: CONTRACTOR SHALL CLOSELY COORDINATE REQUIRED VOLTAGE AND PHASE OF EQUIPMENT PRIOR TO PURCHASE.

 NAVFAC	 DAWSON ENGINEERING, INC. 1500 PINE BLVD SUITE 100 WASHINGTON, MO 63091 (636) 948-4832	 STENNIS SPACE CENTER MISSISSIPPI	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST 1PT SOUTH ATLANTIC NAVAL AIR STATION JACKSONVILLE	JOHN C. STENNIS SPACE CENTER SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY MECHANICAL LEGEND AND SCHEDULES	PROJECT NO. M442 SCALE AS NOTED DRAWING NO. M1.0 WORK ORDER NO. N62487-05-D-0096 CONGR. CONTR. NO. N62487-05-D-0096 DRAWING NO. N62487-05-D-0096 SHEET M1.0 OF ###
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