

WATER TO WATER HEAT PUMP SCHEDULE																											
UNIT DESIG.	COOLING								HEATING							ELECTRICAL							GPM SOURCE	GPM LOAD SIDE COOL/HEAT	BASIS OF DESIGN "CLIMATE MASTER"	NOTES	
	HP EER BASE	HP EER BID OPTION	MBH TOTAL	MBH REJECT	WATER				KW INPUT	MBH CAPACITY	MBH ABSORP.	WATER				KW INPUT	VOLTS/PH	NO.	R.L.A. EA	L.R.A. EA	TOTAL FLA	MIN. CIRCUIT AMP					MAX. FUSE SIZE
					E.W.T. °F SOURCE	L.W.T. °F SOURCE	E.W.T. °F LOAD SIDE	L.W.T. °F LOAD SIDE				E.W.T. °F SOURCE	L.W.T. °F SOURCE	E.W.T. °F LOAD SIDE	L.W.T. °F LOAD SIDE												
HP-1	14.2	20.3	52.4	64.9	86.0	96	55	41	3.68	72.7	47.1	68.0	59.0	100.0	120.00	5.63	460/3	1	7.8	52	7.8	9.8	15	15	7.5/7.5	TMW060	1,2
HP-2	14.2	20.3	52.4	64.9					3.68	72.7	47.1					5.63			7.8	52	7.8	9.8	15	15	7.5/7.5	TMW060	1,2
HP-3	14.2	20.3	52.4	64.9					3.68	72.7	47.1					5.63			7.8	52	7.8	9.8	15	15	7.5/7.5	TMW060	1,2
HP-4	14.2	20.3	52.4	64.9					3.68	72.7	47.1					5.63			7.8	52	7.8	9.8	15	15	7.5/7.5	TMW060	1,2
HP-5	14.2	20.3	52.4	64.9	↓	↓	↓	↓	3.68	72.7	47.1	↓	↓	↓	↓	5.63	↓	↓	7.8	52	7.8	9.8	15	15	7.5/7.5	TMW060	1,2

NOTES: 1. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.
2. HFC-410A REFRIGERANT

AIR HANDLING UNIT SCHEDULE		
AHU1 (VFD)		
AIRFLOW	CFM	4220
ESP	IN H2O	2.5
UL LISTED UNIT		YES
INSULATION		1.5 LB
PANEL WALL TYPE		SOLID DOUBLE WALL
SUPPLY FAN VFD		YES, W/ BYPASS
UNIT LENGTH, MAX.	IN.	120.625
UNIT HEIGHT, MAX.	IN.	45
UNIT WIDTH, MAX.	IN.	66.5
ELECTRICAL	VOLTS/PHASE	460/3
COOLING COIL		
DRAIN PAN		STAINLESS STEEL
SYSTEM TYPE		CHILLED WATER
COIL CASING		STAINLESS STEEL
EDB	F	74.6
EWB	F	60.2
LDB	F	52.8
LWB	F	51.57
SENSIBLE CAPACITY	MBH	100.95
TOTAL CAPACITY	MBH	100.95
ENTERING FLUID TEMPERATURE (°F)	F	40.97
FLUID TEMPERATURE RISE (°F)	F	14
STANDARD FLUID FLOW RATE	GPM	14.36
COIL ROWS		6
FLUID PRESSURE DROP	FT. H2O	0.7

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2. PROVIDE MERV-8 PREFILTER UPSTREAM OF COOLING COIL AND MERV-14 POSTFILTER DOWNSTREAM OF COOLING COIL

AIR CONDITIONING UNIT SCHEDULE		
SYMBOL		HP6/AH2
MANUFACTURER (BASIS OF DESIGN) *		MTSUBISHI
SPLIT SYSTEM	INDOOR	MSZ-A17NA
REFRIGERANT	OUTDOOR	MSUZ-A17NA
CFM		419
CAPACITY ARI STD.	HEATING	20,100 BTUH
	COOLING	16200 BTUH
	EFFICIENCY	16 SEER
ELECTRICAL DATA	VOLTAGE	INDOOR 208 V, 1ø
		OUTDOOR 230 V, 1ø
	AUXILIARY HEAT	N/A
	MIN. CIRC. AMPS	1.0 (AH2)
		INDOOR 14 (HP6)
	MAX. FUSE AMPS	15 (AH2)
		INDOOR 15 (HP6)
OUTSIDE AIR (CFM)		—
WEIGHT (LBS)	INDOOR	23 (AH2)
	OUTDOOR	88 (HP6)
NOTE		—
ACCESSORIES		—

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VAV BOX SCHEDULE													
VAV MARK NO.	LOCATION	INLET SIZE IN.	CFM		MIN PH DROP IN W.C.	HOT WATER COIL (ALL COILS ONE ROW, UNO)						NOTES	
			MAX	MIN		CFM	ΔT	GPM	EAT	LAT			
VAV-1	00	05	250	125	0.4	125	13.16	0.7	52.60	95	1	2	3
VAV-2	020	06	390	195		195	10.74	1.2				4	5
VAV-3	003	04	210	105		105	13.16	0.6					
VAV-4	004	05	230	115		115	13.16	0.7					
VAV-5	006	05	250	125		125	13.16	0.8					
VAV-6	008	12	1350	675		675	14.54	4.1					
VAV-7	042	06	360	180		180	11.97	1.1					
VAV-8	010	04	140	70		70	13.16	0.4					
VAV-9	012	05	260	130		130	13.16	0.8					
VAV-10	013	04	130	65		65	13.16	0.4					
VAV-11	015	05	245	123		123	13.16	0.7					
VAV-12	016	04	130	65		65	13.16	0.4					
VAV-13	018	04	220	110		110	13.16	0.7					
VAV-14	019	04	130	65		65	13.16	0.4					
VAV-15	020	04	160	80		80	13.16	0.5					
VAV-16	022	06	490	245		245	4.66	1.5					
VAV-17	028	08	830	415		415	10.85	2.5					
VAV-18	030	04	150	75		75	13.16	0.5					
VAV-19	033	08	600	300		300	5.07	1.8					
VAV-20	039	05	250	125		125	13.16	0.8					

NOTES: 1. MAXIMUM PERMISSIBLE DEPTH OF BOX 18". INSTALL PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE PROPER CLEARANCES FOR ACCESS AND MAINTENANCE. ORIENTATION/CONFIGURATION SHALL BE COORDINATED WITH ALL TRADES
2. VAV BOX MANUFACTURER SHALL PROVIDE 24 VOLT DAMPER ACTIVATOR WIRED TO A TERMINAL STRIP, AND A CONTROL BOX SUITABLE FOR DDC CONTROL SYSTEM.
3. PROVIDE (1) ROW HOT WATER REHEAT COIL.
4. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.
5. HW COIL SELECTED ON 17°F TEMPERATURE DIFFERENCE AND 103°F LWT.

PRECONDITIONED OUTDOOR AIR UNIT SCHEDULE																											
UNIT NUMBER	WEIGHT (lbs.)	POWER	ELECTRICAL			NOMINAL CONDITION	INPUT CONDITIONS										RETURN CONDITIONS						EFFECTIVENESS			DESIGN BASIS MFR & MODEL #	NOTES
			SUPPLY	EXHAUST	FAN MOTOR BHP		OUTSIDE AIR					VENTILATION AIR					ENTERING AIR						LAT.	SENS.	MEASURED TOTAL S/W		
							CFM	EXT. STATIC PR. (WC)	DEG.F (db)	DEG.F (wb)	HUM. gr/lb	ENTHALPY (Btu/lb)	DEG.F (db)	DEG.F (wb)	RH gr/lb	ENTHALPY (Btu/lb)	CFM	EXT. STATIC PR. (WC)	DEG.F (db)	REL. HUMIDITY %	HUM. gr/lb	ENTHALPY (Btu/lb)					
ERV1	704	460V/3ø	1.88	1.88	SUMMER WINTER	850	0.50	96	80.8	136.1	44.49	80.86	69.11	87.7	33.15	725	0.50	75	49.8	64.4	28.07	77%	82%	79%	MICROMETL EVCDC44A*0000BFX-E	1, 2	
						850	0.50	27	25.8	16	9.41	57.69	50.25	41.9	20.34	725	0.50	70	36.3	46.7	25.30						

NOTES: 1. PROVIDE EXHAUST AIR CAP ON ROOF.
2. PROVIDE FRESH AIR INTAKE CAP ON EXISTING BATHROOM EXHAUST FAN CURB.
3. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.

REGISTER, LOUVER & GRILLE SCHEDULE						
MARK	TYPE	SERVICE		BLOW	REMARKS	NOTES
A	SQUARE DIRECTIONAL (LOUVER) FACE CEILING DIFFUSER	SUPPLY	<input checked="" type="checkbox"/>	AS INDICATED	FRAME STYLE TO SUIT CEILING FINISH. FLUSH FOR HARD CEILING. BASIS OF DESIGN: PRICE SPD SERIES	1
B	SQUARE DIRECTIONAL (LOUVER) FACE CEILING DIFFUSER	SUPPLY	<input checked="" type="checkbox"/>	AS INDICATED	FRAME STYLE TO SUIT CEILING FINISH. 24x24 "LAY-IN" BASIS OF DESIGN: PRICE SPD SERIES	1
C	SLOT DIFFUSER	SUPPLY	<input type="checkbox"/>	180° PATTERN	SLOT DIFFUSER-ALUMINUM CONSTRUCTION BASIS OF DESIGN: PRICE SDS SERIES	1
D	SPOT DIFFUSER	SUPPLY	<input type="checkbox"/>	ADJUSTABLE	SPOT DIFFUSER-ALUMINUM CONSTRUCTION BASIS OF DESIGN: SEIHO PK-E SERIES	1
E	SIDEWALL LINEAR DIFFUSER	SUPPLY	<input type="checkbox"/>	1 WAY	SIDEWALL SUPPLY REGISTER-ALUMINUM CONSTRUCTION BASIS OF DESIGN: PRICE LBP SERIES	1
R	REGISTER FIXED ANGLED VANES SURFACE MOUNTED	RETURN/ EXHAUST TRANSFER	—	—	REGISTER OR EXHAUST REGISTER AS INDICATED-45° ANGLED VANES-ALUMINUM	1
L	EXTERIOR WALL LOUVER FIXED ANGLED VANES	OA W/ EXHAUST	—	—	EXTERIOR WALL LOUVER-EXTRUDED ALUMINUM DRAINABLE WITH BIRD SCREEN. BASIS OF DESIGN: RUSKIN TYPE ELF 6375X	1, 2

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2. LOW LEAKAGE DAMPERS THAT AUTOMATICALLY CLOSE WHEN EMERGENCY AIR DISTRIBUTION SWITCH IS ACTIVATED.

PUMP SCHEDULE										REMARKS
NO.	SERVICE	TYPE	QNTY.	GPM	HEAD FT.	MOTOR				
						H.P. (MIN)	RPM	VOLT/ø		
P1	CONDENSER WATER	IN-LINE, CENTRIFUGAL	2	45	25	0.75	1200	480/3		BELL AND GOSSETT SERIES 80, 1.5X1.5X9.5 143 FRAME
P2	CHILLED WATER	IN-LINE, CENTRIFUGAL	2	22.5	50	1.5	1800	480/3		BELL AND GOSSETT SERIES 80, 1.5X1.5X78 145M FRAME
P3	HOT WATER	IN-LINE, CENTRIFUGAL	2	22	50	1.5	1800	480/3		BELL AND GOSSETT SERIES 80, 1.5X1.5X78 145M FRAME
P4	GROUND LOOP (BID OPTION ONLY)	IN-LINE, CENTRIFUGAL	2	45	80	5	1800	480/3		BELL AND GOSSETT SERIES 80, 1.5X1.5X9.5 184 FRAME

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2. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) AS SPECIFIED.

BOILER SCHEDULE										(BASE BID ITEM ONLY)
ITEM	SERVICE	WATER (TOTAL)			NATURAL GAS (MBUH)		BASIS OF DESIGN	NOTES		
		GPM	° F IN	° F OUT	INPUT	OUTPUT				
1	COND. WATER	9.8	40	60	105	19.4 (LOW FIRE)	LOCHINVAR MODEL # KB-106	1		

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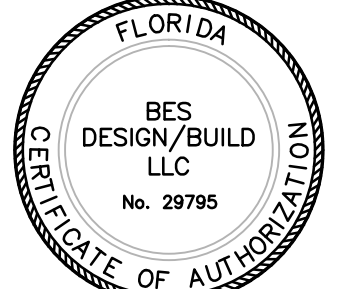

COOLING TOWER SCHEDULE								(BASE BID ITEM ONLY)
MARK	GPM	EWT °F	LWT °F	OA WBF	FAN HP	VOLTS,PHASE	WEIGHT (LBS)	MANUFACTURER AND MODEL #
CT1	45	96	86	82	5.0	480V, 3PH	2,415	BALTIMORE AIRCOIL COMPANY VF1-018-12HH

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FINAL SUBMISSION
APRIL 18, 2012

IF SHEET IS LESS THAN (30"x42") IT IS
A REDUCED PRINT; SCALE ACCORDINGLY

MO11

 766 MIDDLE ST., PANAMA, AL 36532 251-990-5778 ARCH. & ENGR. SEAL 	NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS	P.W. DWG. NO.	DEPARTMENT OF THE NAVY NAVAL SUPPORT ACTIVITY PANAMA CITY, FLORIDA	
	SAFETY DEPARTMENT	DRAWN BY R. LONDOÑO	PANAMA CITY JOINT OUTPATIENT CLINIC NAVAL GULF COAST HEALTH CARE MECHANICAL SCHEDULES SCHEDULES	
	FIRE DEPARTMENT	CHECKED BY R. DeLOACH		
	PUBLIC WORKS SUPERVISOR	SUPERVISOR B. COFFMAN		
		APPROVED	DATE	SIZE F CODE IDENT. NO. HONC PROJ. NO. SCALE