

NOTE:

THIS SCHEDULE SHEET IS FOR ALTERNATIVE NO. 11:

ONE 100 TON AIR COOLED CHILLER FURNISHED BY GOVERNMENT, 2 CHILLED WATER PUMPS (CHWP-1 AND CHWP-2). EACH PUMP IS EQUIPPED WITH 7.5 HP MOTOR AND HAS A VFD DRIVE. EACH PUMP IS WITH 240 GPM FLOW AND 70 FT HEAD.

PUMP SCHEDULE

MARK	DESCRIPTION	FLOW GPM	HEAD FT	BHP	TYPE	EFF. %	MOTOR			REMARKS
							HP	RPM	VOLTS/PH/Hz	
CHWP-1	CHILLED WATER SYS.	240	70	7.3	INLINE CENT.	71.5	7.5	1725	460/3/60	1,3,4
CHWP-2	CHILLED WATER SYS.	240	70	7.3	INLINE CENT.	71.5	7.5	1725	460/3/60	1,3,4
HWP-1	HOT WATER SYS.	36	36	0.9	INLINE CENT.	51	1.0	1725	460/3/60	2,4
HWP-2	HOT WATER SYS.	36	36	0.9	INLINE CENT.	51	1.0	1725	460/3/60	2,4

- NOTE:
1. BASE OF DESIGN: BELL & GOSSETT SERIES 80 3X3X9.58 CLOSED COUPLE PUMP. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL PERFORMANCE.
  2. BASE OF DESIGN: BELL & GOSSETT SERIES 80 1½X1½X7B CLOSED COUPLE PUMP. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL PERFORMANCE.
  3. PROVIDE VFD FOR THE PUMP.
  4. PROVIDE THE PUMP WITH ALLOY STEEL SHAFT, CUPRO-NICKEL SHAFT SLEEVE, CAST BRONZE IMPELLER, BRONZE WEAR RINGS, BALL-BEARING FRAME, AND MECHANICAL SHAFT SEAL.

BOILER SCHEDULE

ITEM	SERVICE	HOT WATER			NATURAL GAS (X 1000)		INLET PRESSURE (NATURAL GAS) RANGE IN W.C.	REMARKS
		GPM	°F IN	°F OUT	INPUT	OUTPUT		
B-1	HOT WATER SYS.	36	110	140	500 MBH	467 MBH	4" - 14"	-
B-2	HOT WATER SYS.	36	110	140	500 MBH	467 MBH	4" - 14"	-

- NOTE:
1. BASE OF DESIGN: LOCHINVAR MODEL KBN501 CONDENSING BOIL. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY, QUALITY, AND PERFORMANCE.

EXPANSION TANK SCHEDULE

ITEM	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	TYPE	MODEL	MAX WORKING PRESSURE (PSI)	REMARKS
ET-1	HOT WATER SYS.	21.7	11.3	DIAPHRAM	D-40V	125	1
ET-2	CHILLED WATER	7.8	2.5	DIAPHRAM	D-15V	125	1

- NOTE:
1. BASE OF DESIGN IS BELL & GOSSETT MODEL SERIES D. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY, QUALITY, AND PERFORMANCE.

BUFFER TANK SCHEDULE

ITEM	SERVICE	TANK VOLUME (GAL)	MAX WORKING PRESSURE (PSI)	SIZE	WEIGHT (LB)	REMARKS
BFT-1	HEATING	200	125	89.5(H)X32(DIA.)	900	SEE NOTE 1

- NOTE:
1. BASE OF DESIGN IS LOCHINVAR MODEL BVU200. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY, QUALITY, AND PERFORMANCE.

AIR SEPARATOR SCHEDULE

ITEM	SERVICE	MODEL	MAXIMUM FLOW (GPM)	SIZE (INCH)	REMARKS
AS-1	CHILLED WATER SYS.	R-2	56	2	1
AS-2	HOT WATER SYS.	R-3	190	3	1

- NOTE:
1. BASE OF DESIGN IS BELL & GOSSETT MODEL R-2 OR R-3. PROVIDE INDICATED EQUIPMENT OR EQUIPMENT OF EQUAL CAPACITY, QUALITY, AND PERFORMANCE.

AIR HANDLING UNIT SCHEDULE

		AHU-1		AHU-2	
AIRFLOW	CFM	13000		13000	
ESP	IN H2O	3		3	
SUPPLY FAN VFD	YES, W/ BYPASS			YES, W/ BYPASS	
SUPPLY FAN HP/BHP.	HP/BHP.	10/9.03		10/9.03	
UNIT OSA (PRETREATED)	CFM	3500		2500	
COOLING COIL					
DRAIN PAN		STAINLESS STEEL		STAINLESS STEEL	
SYSTEM TYPE		CHILLED WATER		CHILLED WATER	
COIL CASING		STAINLESS STEEL		STAINLESS STEEL	
EDB	F	78		78	
EWB	F	66		66	
LDB	F	53.4		53.4	
LWB	F	52.5		52.5	
SENSIBLE CAPACITY	MBh	239		239	
TOTAL CAPACITY	MBh	300		300	
ENTERING FLUID TEMPERATURE (°F)	F	40		40	
FLUID TEMPERATURE RISE (°F)	F	14		14	
STANDARD FLUID FLOW RATE	GPM	80		80	
COIL ROWS		6		6	
FLUID PRESSURE DROP	FT. H2O	10		10	

- NOTES:
1. INSTALL UNIT ON 3" HOUSEKEEPING PAD.

CONSULTANTS:

CIVIL:  
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VAV BOX SCHEDULE

VAV MARK NO.	LOCATION	UNIT SIZE	CFM		PRES-SURE DROP IN W.C.	HOT WATER COIL (ALL COILS ONE ROW, UNO)					NOTES
			MIN	MAX		CFM	EWI	GPM	EAT	LAT	
VAV-1	OFF./MED.ROOM B05	06	420	420	0.25	420	150	1.0	55	95	1,2,3,5
VAV-2	X-RAY B04	08	500	800		500		1.0			1,2,3,5
VAV-3	RECEP./CHECK-IN/FILES B03	08	500	730		500		1.0			2,3,6
VAV-4	HYGIENE OP. B11	04	50	100		50		0.5			1,2,3,5
VAV-5	GEN. TREATMENT OP. B12	04	50	100		50		0.5			1,2,3,5
VAV-6	HYGIENE OP. B13	04	50	100		50		0.5			1,2,3,5
VAV-7	GEN. TREATMENT OP. B14	04	50	100		50		0.5			1,2,3,5
VAV-8	COOR. B09	04	75	150		75		0.5			1,2,3,5
VAV-9	AFGE OFFICE B25	08	780	780		780		1.0			1,2,3,5
VAV-10	-	-	-	-		-		-			-
VAV-11	CLINICAL LAB B22	08	570	570		570		1.0			1,2,3,5
VAV-12	CORR. B24	06	500	500		500		1.0			1,2,3,5
VAV-13	CLINICAL PHARMACIST C10	05	155	310		155		0.5			1,2,3,5
VAV-14	CENTRAL RECEPTION C01	08	525	525		525		1.0			1,2,3,5
VAV-15	ST. TLT C12	06	400	400		400		0.5			1,2,3,5
VAV-16	SOCIAL WORKER C06	08	370	550		370		1.0			1,2,3,5
VAV-17	R.O.I. D01	04	55	110		55		0.5			1,2,3,5
VAV-18	CORR. D05	06	430	430		430		1.0			1,2,3,5
VAV-19	CORR. D13	08	600	710	0.35	600		1.0			1,2,3,5
VAV-20	RADIOLOGY D07	05	310	310	0.25	310		0.5			1,2,3,6
VAV-21	RADIOLOGY D07	10	600	910		600		1.0			1,2,3,5
VAV-22	BREAK RM. D18	08	690	690		690		1.0			1,2,3,5
VAV-23	COMM. RM. D20	08	340	680		-		-			1,2,3,4,5
VAV-24	ELEC. SYS. D21	08	365	730		365		0.5			1,2,3,5
VAV-25	EXAM RM. C45	06	240	480		240		0.5			1,2,3,5
VAV-26	EXAM RM. C40	08	760	760		760		1.0			1,2,3,5

LOUVERS

1. 36X24 RUSKOM ELF-675 OR EQUAL. BRONZE COLOR OR APPROVED BY GOVERNMENT. SHALL BE 6" DEEP WITH DAMPER IN PLENUM. PROVIDE WITH BIRD SCREEN

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
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
C	SLOT DIFFUSER	SUPPLY	<input type="checkbox"/>	18" PATTERN	1.5" SLOT WIDTH, 1" SLOT 12" INLET, ALUMINUM CONSTRUCTION. BASIS OF DESIGN: PRICE SDS SERIES
R	REGISTER FIXED ANGLED VANES SURFACE MOUNTED	RETURN/ EXHAUST TRANSFER	<input type="checkbox"/>	<input type="checkbox"/>	RETURN OR EXHAUST REGISTER AS INDICATED-45° ANGLED VANES-ALUMINUM

ENERGY RECOVERY UNIT SCHEDULE

UNIT NUMBER	NOMINAL CONDITION	INPUT CONDITIONS										RETURN CONDITIONS						MIN ENERGY EFFICIENCY	ELECTRICAL			WEIGHT (lbs.)	MFR & MODEL #	NOTES
		OUTSIDE AIR					VENTILATION AIR					ENTERING AIR							FAN MOTOR HP					
		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)		POWER	SUPPLY	EXHAUST			
ERU-1	SUMMER	3500	0.50	95	78	117.4	42.4	80.37	68.06	83	32.9	2950	0.50	75	51.6	66.7	28.43	80%	460V/3ø	5.00	3.00	1390	MICROMETL EVHGEEA4400R0BEFXG-E	1,2,3
	WINTER	3500	0.50	26	21.9	10	8.6	59.96	51.55	43.2	32.3	2950	0.50	70	48.3	52.6	25.00							
ERU-2	SUMMER	2500	0.50	95	78	117.4	42.4	80.37	68.06	83	32.9	2150	0.50	75	51.6	66.7	28.43	80%	460V/3ø	5.00	3.00	1390	MICROMETL EVHGEEA4400R0BEFXG-E	1,2,3
	WINTER	2500	0.50	26	21.9	10	8.6	59.96	51.55	43.2	32.3	2150	0.50	70	48.3	52.6	25.00							

- 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.

VAV BOX SCHEDULE

VAV MARK NO.	LOCATION	INLET SIZE IN.	CFM		PRES-SURE DROP IN W.C.	HOT WATER COIL (ALL COILS ONE ROW, UNO)					NOTES 1,2,3,5
			MIN	MAX		CFM	EWT	GPM	EAT	LAT	
VAV-27	SOILED UTILITY RM. C15	05	330	330	0.25	330	150	0.5	55	95	1,2,3,5
VAV-28	CASE MGR. OFF. C37	06	380	380		380		0.5			1,2,3,5
VAV-29	CASE MGR. OFF. C34	05	300	300		300		0.5			1,2,3,5
VAV-30	CASE MGR. OFF. C32	05	300	300		300		0.5			1,2,3,5
VAV-31	CORR. C29	04	200	200		200		0.5			1,2,3,5
VAV-32	CORR. C28	05	300	300		300		0.5			1,2,3,5
VAV-33	EXAM RM. C24	08	840	840		840		1.0			1,2,3,6
VAV-34	GYN. EXAM RM. C20	05	210	285		210		0.5			1,2,3,5
VAV-35	DIETITIAN C18	05	150	225		150		0.5			1,2,3,5
VAV-36	PT. TLT C19	06	430	430		430		0.5			1,2,3,5
VAV-37	FMS B34	04	150	150		150		0.5			1,2,3,6
VAV-38	HAC B33	04	110	110		110		0.5			1,2,3,5
VAV-39	STOR./ STERILE B29	04	150	150		150		0.5			1,2,3,5
VAV-40	STOR./ STERILE B29	04	130	130		130		0.5			1,2,3,5
VAV-41	STG. EMS/ LARGE EQUIP. B36	08	510	510		510		1.0			1,2,3,5
VAV-42	CORR. B24	08	610	610		610		1.0			1,2,3,5
VAV-43	TLT. UNISEX A14	08	695	695		695		1.0			1,2,3,5
VAV-44	VOL. MP ROOM A11	08	550	550		550		0.5			1,2,3,5
VAV-45	COMM. A08	08	320	640		-		-			1,2,3,4,5
VAV-46	FAM. TLT A09	04	90	180		90		0.5			1,2,3,5
VAV-47	VOL. SERV. OFF. A10	08	790	790		790		1.0			1,2,3,5
VAV-48	WAITING AREA "C" A03	10	1000	1000		1000		1.0			1,2,3,6
VAV-49	WAITING AREA "B" A04	12	1750	1750	0.50	1750		1.5			1,2,3,5
VAV-50	WAITING AREA "A" A05	12	875	1750	0.50	875		1.5			1,2,3,5
VAV-51	WAITING AREA "B" A04	10	490	980	0.35	490		1.5			1,2,3,5
VAV-52	MEN'S RR A19	06	200	400	0.25	200		0.5			1,2,3,5
VAV-53	WOMEN RR A18	06	215	425	0.25	215		0.5			1,2,3,5
VAV-54	CORR. A23	04	150	150	0.25	150		0.5			1,2,3,5
VAV-55	CORR. A23	10	1260	1260	0.35	1260		1.0			1,2,3,5
VAV-56	CONFERENCE ROOM A21	10	650	1300	0.35	650		1.5			1,2,3,5
VAV-57	OFFICE, SECT & WAITING A20	04	220	220	0.25	220		0.5			1,2,3,5