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TERMINAL UNITS - CONSTANT VOLUME - FIRST FLOOR

MARK LOCATION SERVES		TU-101	TU-102	TU-103	TU-104	TU-105	TU-106	TU-107	TU-108	TU-109	TU-110	TU-111	TU-112	TU-113	TU-114	TU-115
CAPACITY		HALL 1057 ELEV LOB 1005	HALL 1057 CONT 1061	CORR 1068 SUB WAIT 1065	CORR 1063 SIMUL2/HDR	STF LNG 1011 STF LNG 1011	AGVS SOIL 1086 AGVS SOIL 1086	CORR 1085 AGVS CLEAN	CORR 1084 CORR 1084	HALL 1057 EXAM 1056,8,9	CORR 1071 HALL 1057	CORR 1071 EXAM 1054,55	CORR 1071 CLEAN 1039	HOLD 1073A EXAM 1072	HOLD 1073A HOLD 1073A	SH STOR 1017 SH STOR 1017
UNIT	MAX FLOW: CFM	250	420	440	900	480	250	570	780	375	270	350	570	145	425	1,125
	MAX PD: IN WG	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
NOISE CRITERIA	INLET SIZE: IN	6	8	8	12	8	6	8	10	6	6	6	8	6	8	12
	OUTLET SIZE: IN	10x10	12x10	12x10	16x15	12x10	10x10	12x10	14x13	10x10	10x10	10x10	12x10	10x10	12x10	16x15
HEATING COIL	NC: DISCHARGE	15	19	19	20	21	15	20	19	20	16	18	20	15	19	20
	NC: RADIATED	15	20	20	20	21	15	22	19	20	16	18	20	15	20	20
BASIS OF DESIGN	CAPACITY:MBH	11.5	20.2	14.2	39.5	21.4	11.5	22.8	32.6	17.0	9.4	16.6	22.8	6.1	13.8	42.7
	HW FLOW: GPM	0.5	1.5	2.0	1.5	1.0	0.5	1.0	1.5	1.0	1.5	1.0	1.0	0.5	2.0	1.5
	LWT	134	140	165	127	137	134	134	136	145	167	146	134	155	166	123
	EAT	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	LAT	98	100	85	96	96	98	92	94	97	87	99	92	94	86	90
	ROWS	2	2	1	2	2	2	2	2	2	1	2	2	1	1	2
	MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
	MODEL	DESV-06	DESV-08	DESV-08	DESV-12	DESV-08	DESV-06	DESV-08	DESV-10	DESV-06	DESV-06	DESV-06	DESV-08	DESV-06	DESV-08	DESV-12
	NOTES	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]
MARK LOCATION SERVES		TU-116	TU-117	TU-118	TU-119	TU-120	TU-121	TU-122	TU-123	TU-124	TU-125	TU-126	TU-127	TU-128	TU-129	TU-130
CAPACITY		CORR 1034 NS 1035	CORR 1022 SUB WAIT 1026	CORR 1023 CONT 1027	RT-3 EXAM 1048,49	HALL 1047 EXAM 1048,49	HALL 1046 COUNSEL 1043	CONF 1037 LV 1036	CONF 1037 CONF 1037	CORR 1034 OFC 1029,31	CORR 1084 ELEV LBY 1098	WORK 1115 RECEPT 1114	OFC 1177 CLEAN 1174	CORR E1127 OFC 1172,77	OFC 1175 OFC 1172,75	HALL 1173 CORR 31131
UNIT	MAX FLOW: CFM	480	480	375	1,200	375	295	200	610	680	250	1,275	455	850	455	800
	MAX PD: IN WG	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
NOISE CRITERIA	INLET SIZE: IN	8	8	8	12	6	6	6	8	10	6	14	8	12	8	10
	OUTLET SIZE: IN	12x10	12x10	10x10	16x15	10x10	10x10	10x10	12x10	14x13	10x10	20x18	12x10	16x15	12x10	14x13
HEATING COIL	NC: DISCHARGE	18	18	17	20	20	17	15	19	18	20	15	19	20	19	18
	NC: RADIATED	18	18	17	20	20	17	15	20	19	20	20	20	20	20	19
BASIS OF DESIGN	CAPACITY:MBH	21.4	21.4	12.6	54.8	17.0	9.9	6.5	23.2	25.8	11.5	55.9	20.9	38.6	20.9	33.0
	HW FLOW: GPM	1.0	1.0	1.5	3.0	1.0	1.5	0.5	1.0	0.5	2.0	1.0	1.0	1.5	1.0	1.5
	LWT	137	137	163	143	145	166	150	133	123	133	124	138	128	138	136
	EAT	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	LAT	96	96	86	97	97	86	85	91	90	98	96	98	97	98	93
	ROWS	2	2	1	2	2	1	1	2	2	2	2	2	2	2	2
	MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
	MODEL	DESV-08	DESV-08	DESV-06	DESV-12	DESV-06	DESV-06	DESV-06	DESV-08	DESV-10	DESV-06	DESV-14	DESV-08	DESV-12	DESV-08	DESV-10
	NOTES	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]
MARK LOCATION SERVES		TU-131	TU-132	TU-133	TU-134	TU-135	TU-136									
CAPACITY		HALL 1168 SUBWAIT 11165	OFFICE 1162 OFFICE 1162	OFFICE 1161 OFC, NS1131C	RT-2 RT-2	RT-1 RT-1	MECH 1091 MECH 1091									
UNIT	MAX FLOW: CFM	300	950	550	1,400	1,200	2,000									
	MAX PD: IN WG	0.50	0.50	0.50	0.50	0.50	0.50									
NOISE CRITERIA	INLET SIZE: IN	6	12	8	14	12	16									
	OUTLET SIZE: IN	10x10	16x15	12x10	20x18	16x15	24x18									
HEATING COIL	NC: DISCHARGE	15	18	19	18	20	15									
	NC: RADIATED	15	18	20	20	20	15									
BASIS OF DESIGN	CAPACITY:MBH	12.3	39.9	22.8	57.8	48.5	48.5									
	HW FLOW: GPM	0.5	1.5	1.0	2.0	2.0	3.0									
	LWT	130	126	134	122	131	147									
	EAT	55	55	55	55	55	55									
	LAT	93	95	92	93	92	77									
	ROWS	2	2	2	2	2	1									
	MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS									
	MODEL	DESV-06	DESV-12	DESV-08	DESV-14	DESV-12	DESV-16									
	NOTES	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]	[1, 2, 3, 4]									

- NOTES:
1. NC VALUES CALCULATED USING MODELING ASSUMPTIONS BASED ON ARI 885-90, 1" INLET SP, AND 0.25" DOWNSTREAM SP.
 2. PIPE CONNECTION SIZES: 3/4" 3 GPM MAX, 1" 6.5 GPM MAX.
 3. GPM BASED ON 180 DEGREE F ENTERING WATER TEMPERATURE (EWT).
 4. OUTLET DUCT CONNECTION SHALL BE AS SCHEDULED UNLESS OTHERWISE NOTED ON PLANS.

TERMINAL UNITS - CV - FIFTH, SIXTH, SEVENTH, EIGHTH FLOORS

MARK LOCATION SERVES		TU-501	TU-502	TU-503	TU-601	TU-701	TU-801
CAPACITY		MECH 5005 SOUTH MECH	MECH 5005 NORTH MECH	MECH 5005 LOBBY 5013	STOR 6003 LOBBY 6004	STOR 7002 LOBBY 7004	STOR 8001 LOBBY 8002
UNIT	MAX FLOW: CFM	1,020	1,020	475	590	590	630
	MAX PD: IN WG	0.50	0.50	0.50	0.50	0.50	0.50
NOISE CRITERIA	INLET SIZE: IN	12	12	8	8	8	8
	OUTLET SIZE: IN	16x15	16x15	12x10	12x10	12x10	12x12
HEATING COIL	NC: DISCHARGE	20	20	19	19	19	19
	NC: RADIATED	20	20	20	20	20	20
BASIS OF DESIGN	CAPACITY:MBH	43.9	43.9	35.0	26.2	26.2	26.9
	HW FLOW: GPM	2.0	2.0	2.0	1.5	1.5	1.5
	EAT	55	55	55	55	55	55
	LAT	99	99	98	96	96	95
	LWT	136	136	144	145	145	144
	ROWS	2	2	2	2	2	2
	MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
	MODEL	DESV-12	DESV-12	DESV-08	DESV-08	DESV-08	DESV-08
	NOTES	[1, 2 ,3, 4]	[1, 2 ,3, 4]	[1, 2 ,3, 4]	[1, 2 ,3, 4]	[1, 2 ,3, 4]	[1, 2, 3]

- NOTES:
1. NC VALUES CALCULATED USING MODELING ASSUMPTIONS BASED ON ARI 885-90, 1" INLET SP, AND 0.25" DOWNSTREAM SP.
 2. PIPE CONNECTION SIZES: 1/2" 1.5 GPM MAX, 3/4" 3 GPM MAX, 1" 6.5 GPM MAX, 1 1/4" 12 GPM MAX.
 3. GPM BASED ON 180 DEGREE F ENTERING WATER TEMPERATURE (EWT).
 4. OUTLET DUCT CONNECTION SHALL BE AS SCHEDULED UNLESS OTHERWISE NOTED ON PLANS.

SAND FILTRATION SYSTEMS

MARK LOCATION SERVES		CTFS-2	CTFS-3
CAPACITY		LEVEL 9 COND WATER	LEVEL 9 COND WATER
ELECTRICAL	FLOW: GPM	100	100
	FILTER AREA: SF	4.9	4.9
OPER WEIGHT	PRESSURE: PSIG	50	50
	VOLT/PHASE	460/3	460/3
BASIS OF DESIGN	PUMP HP	2	2
	WEIGHT: LBS	1,270	1,270
	MANUFACTURER	GARRATT CALL	GARRATT CALL
	MODEL	PF-2030	PF-2030
	NOTES	[1, 2, 3, 4]	[1, 2, 3, 4]

- NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR DISCONNECT SWITCH.
 2. PROVIDE ON SKID WITH PUMP.
 3. PROVIDE WITH ASME STAMP AND AUTOMATIC CONTROL OPTIONS.
 4. UNIT SERVED BY EMERGENCY POWER.

STEAM PRESSURE REDUCING VALVES

MARK SERVES LOCATION		PRV-1	PRV-2	PRV-3
CAPACITY		LPS HEADER LEVEL 1	LPS HEADER LEVEL 1	LPS HEADER LEVEL 1
STEAM	LB/HR	1,815	6,055	6,055
	INLET PRESS	100	100	100
VALVE SIZE	OUTLET PRESS	12	11	10
	DIA: INCHES	1	2	2
MAKE	MANUFACTURER	SPIRAX SARCO	SPIRAX SARCO	SPIRAX SARCO
	MODEL	25P	25P	25P
	NOTES			

STEAM RELIEF VALVES

MARK SERVES LOCATION		SRV-1
CAPACITY		LPS HEADER LEVEL 1
STEAM	LB/HR	12,600
	INLET PRESS	15
VALVE SIZE	DIA: INCHES	6x8
	SQ IN.	11.811
MAKE	MANUFACTURER	SPIRAX SARCO
	MODEL	SV74
	NOTES	

STEAM TRAPS

MARK LOCATION SERVES		TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TP-7	TP-8	TP-9	TP-10	TP-11
		LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1
		HPS MAIN	D AND T	HX-1	HX-1	HE-2	HE-2	D AND T	D AND T	DWH-1	D AND T	D AND T
TYPE	DESCRIPTION	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T
BASIS OF DESIGN	CAPACITY: LB/HR	800	800	10,000	10,000	10,000	10,000	400	400	1,100	400	400
	STM PRESS: PSIG	100	12	2	2	2	2	12	12	2	12	12
	DIFF PRESS: PSI	70	1	1	1	1	1	1	1	1	1	1
	ORFICE: IN	1/8	7/32	1 1/8	1 1/8	1 1/8	1 1/8	7/32	7/32	5/16	7/32	7/32
	PIPE CONN: IN	3/4	3/4	2	2	2	2	3/4	3/4	1	3/4	3/4
	MANUFACTURER	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG
	MODEL	125-A3	15-B3	30-L8	30-L8	30-L8	30-L8	15-B8	15-B8	15-B4	15-B8	15-B8
	NOTES											
MARK LOCATION SERVES		TP-12	TP-13	TP-14	TP-15	TP-16	TP-17	TP-18	TP-19	TP-20	TP-21	TP-22
		LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1
		DWH-2	D AND T	D AND T	DWH-3	D AND T	D AND T	DWH-4	D AND T	D AND T	D AND T	D AND T
TYPE	DESCRIPTION	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T	F AND T
BASIS OF DESIGN	CAPACITY: LB/HR	1,100	400	400	1,100	400	400	1,100	400	400	400	400
	STM PRESS: PSIG	2	12	12	2	12	12	2	12	12	12	12
	DIFF PRESS: PSI	1	1	1	1	1	1	1	1	1	1	1
	ORFICE: IN	5/16	7/32	7/32	5/16	7/32	7/32	5/16	7/32	7/32	7/32	7/32
	PIPE CONN: IN	1	3/4	3/4	1	3/4	3/4	1	3/4	3/4	3/4	3/4
	MANUFACTURER	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG
	MODEL	15-B4	15-B8	15-B8	15-B4	15-B8	15-B8	15-B4	15-B8	15-B8	15-B8	15-B8
	NOTES		FUTURE	FUTURE	FUTURE	FUTURE	FUTURE	FUTURE	FUTURE			