

Room	System	Space Type	Area sf	People qty	Space Temperatures			Supply Air Temperatures			Cooling Load		Cooling Load		Heating Load		Cooling		ACB Sens	ACB	Airside	Airflow Sizing		Max	Min			Uncorr OA		Reheat	Reheat	Heat	Heating	Reheat	Space	Remaining	
					Cooling F	Heating F	HR lb	Cooling F	Heating F	HR lb	Sensible Btu/h	Latent Btu/h	Sensible Btu/h	Sensible Btu/h/SF	Capacity %	Sensible Btu/h	Sensible Btu/h	Cooling cfm	Cooling cfm	30% max cfm	OA cfm	Max cfm	Min cfm	Percent %	F	EAT	LAT F	LAT F	Min cfm	Load Btu/h	Heating Btu/h	Heating Btu/h	FTR Heating Btu/h	VAV Zone	ACB (Y/N)		
1 L0 Bathroom_B00A	AHU 4	Corridor	841	6	80	65	0.01209	55	90	0.00848	1887	1200	-2205	2	0%	0	1887	75	75	25	75	75	75	100%	60	65	90	75	405	2025	180	VAV 0.9					
10 L0 ElevMachRm_B0062	FCU	MEP	52	1	80	65	0.01209	55	90	0.00848	268	200	-94	5	0%	0	268	25	25	25	25	25	25	100%	60	65	68	25	135	94	0						
101 L1-4 Atrium	AHU 5	Lobby	355	6	75	70	0.01022	55	90	0.00848	58865	3034	-40144	166	0%	0	58865	375	2750	825	75	2750	825	3%	60	70	90	825	8910	17820	22324	VAV 4.18					
102 L1 Bathroom	AHU 5	Corridor	685	0	80	65	0.01209	55	90	0.00848	1170	0	0	2	0%	0	1170	0	50	25	50	50	50	100%	60	65	65	50	270	0	0	VAV 1.25					
103 L1 BathroomMen_10020	AHU 3	Corridor	147	0	80	65	0.01209	55	90	0.00848	252	0	0	2	0%	0	252	0	25	25	25	25	25	100%	60	65	65	25	135	0	0	VAV 1.12					
104 L1 BathroomWomen_10021	AHU 3	Corridor	176	0	80	65	0.01209	55	90	0.00848	300	0	0	2	0%	0	300	0	25	25	25	25	25	100%	60	65	65	25	135	0	0	VAV 1.12					
105 L1 Cafe_101_SE1	AHU 3	Cafe	482	20	75	70	0.01022	55	90	0.00848	13734	5637	-8133	28	0%	0	13734	675	650	225	250	675	250	37%	60	70	90	250	2700	5400	2733	VAV 1.7					
106 L1 Cafe_101_SE2	AHU 3	Cafe	569	20	75	70	0.01022	55	90	0.00848	14152	5740	-8515	25	0%	0	14152	700	675	225	275	700	275	39%	60	70	90	275	2970	5940	2575	VAV 1.6					
107 L1 Cafe_101_SW1	AHU 3	Cafe	703	44	75	70	0.01022	55	90	0.00848	25825	15156	-20525	37	0%	0	25825	1800	1200	550	475	1800	550	26%	60	70	90	550	5940	11880	8645	VAV 1.2 & VAV 1.40					
108 L1 Cafe_101_SW2	AHU 3	Cafe	433	28	75	70	0.01022	55	90	0.00848	13533	7870	-5499	31	0%	0	13533	950	650	300	300	950	300	32%	60	70	87	300	3240	5499	0	VAV 1.5					
109 L1 Cafe_101_W	AHU 3	Cafe	250	5	75	70	0.01022	55	90	0.00848	15757	2790	-9085	63	0%	0	15757	350	750	225	100	750	225	13%	60	70	90	225	2430	4860	4225	VAV 1.1					
11 L0 EventStorage_B16	AHU 3	Storage	410	0	80	65	0.01209	55	90	0.00848	489	0	-740	1	0%	0	489	0	25	25	50	50	50	100%	60	65	79	50	270	740	0	VAV 0.4					
110 L1 ControlRoom_131A	FCU	IT	113	2	80	65	0.01209	55	90	0.00848	12167	400	0	107	0%	0	12167	25	475	150	25	475	150	5%	60	65	65	150	810	0	0						
111 L1 Corridor_10045	AHU 5	Corridor	120	0	80	65	0.01209	55	90	0.00848	205	0	0	2	0%	0	205	0	25	25	25	25	25	100%	60	65	65	25	135	0	0	VAV 1.26					
112 L1 Corridor_10049	AHU 5	Corridor	341	0	80	65	0.01209	55	90	0.00848	531	146	-987	2	0%	0	531	25	25	25	25	25	25	100%	60	65	90	25	135	675	312	VAV 1.26					
113 L1 Corridor_10050	AHU 5	Corridor	643	0	80	65	0.01209	55	90	0.00848	1099	0	0	2	0%	0	1099	0	50	25	50	50	50	100%	60	65	65	50	270	0	0	VAV 1.26					
114 L1 ElecRm_10068	AHU 5	MEP	102	0	80	65	0.01209	55	90	0.00848	122	0	0	1	0%	0	122	0	25	25	25	25	25	100%	60	65	65	25	135	0	0	VAV 1.26					
115 L1 ElevLobby_10046_Int1	AHU 5	Lobby	1411	12	75	70	0.01022	55	90	0.00848	8490	2400	-288	6	0%	0	8490	300	400	125	150	400	150	38%	60	70	72	150	1620	288	0	VAV 1.18					
116 L1 ElevLobby_Int2	AHU 5	Lobby	1232	10	75	70	0.01022	55	90	0.00848	7150	2000	-1448	6	0%	0	7150	250	350	125	125	350	125	36%	60	70	81	125	1350	1448	0	VAV 1.19					
117 L1 ExitCorridor_10043	Unit Heater	Corridor	269	0	80	65	0.01209	55	90	0.00848	459	0	-787	2	0%	0	459	0	25	25	25	25	25	100%	60	65	90	25	135	675	112						
118 L1 HuddleRm_170	AHU 1	Huddle	93	5	75	70	0.01022	55	90	0.00848	1586	775	-301	17	0%	0	1586	100	75	50	50	100	50	50%	60	70	76	50	540	301	0	VAV 1.31	NO				
119 L1 HuddleRm_172	AHU 1	Huddle	93	5	75	70	0.01022	55	90	0.00848	1625	775	-81	17	0%	0	1625	100	100	50	50	100	50	50%	60	70	72	50	540	81	0	VAV 1.31	NO				
12 L0 SecEquipRm_B0070	AHU 4	MEP	241	3	80	65	0.01209	55	90	0.00848	593	600	-935	2	0%	0	593	50	25	25	50	50	50	100%	60	65	82	50	270	935	0	VAV 0.8					
120 L1 HuddleRm_173	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1619	775	0	18	0%	0	1619	100	75	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.28	NO				
121 L1 HuddleRm_174	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1622	775	0	18	0%	0	1622	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.34	NO				
122 L1 HuddleRm_175	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1619	775	0	18	0%	0	1619	100	75	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.28	NO				
123 L1 HuddleRm_176	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1622	775	0	18	0%	0	1622	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.34	NO				
124 L1 HuddleRm_177	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1622	775	0	18	0%	0	1622	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.27	NO				
125 L1 HuddleRm_178	AHU 1	Huddle	89	5	75	70	0.01022	55	90	0.00848	1622	775	0	18	0%	0	1622	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 1.34	NO				
126 L1 HuddleRm_179	AHU 1	Huddle	103	5	75	70	0.01022	55	90	0.00848	5622	998	-2536	54	49%	2751	2871	125	15																		

208 L2 ConferenceRm_238	AHU 5	Conference	259	10	75	70	0.01022	55	90	0.00848	3689	1550	0	14	0%	0	3689	200	175	75	75	200	75	38%	60	70	70	75	810	0	0 VAV 2.8	
209 L2 Corridor_20041	AHU 5	Corridor	1310	0	80	65	0.01209	55	90	0.00848	2238	0	0	2	0%	0	2238	0	100	50	100	100	100%	60	65	65	100	540	0	0 VAV 2.5		
21 L0-1 Lecture Hall_131_Ext	AHU 4	Lecture	862	68	75	70	0.01022	55	90	0.00848	31910	13499	-18998	37	0%	0	31910	1625	1500	500	575	1625	575	35%	60	70	90	575	6210	12420	6578 VAV 1.15	
210 L2 Corridor_20050	AHU 5	Corridor	1602	0	80	65	0.01209	55	90	0.00848	2735	0	0	2	0%	0	2735	0	125	50	100	125	100	80%	60	65	65	100	540	0	0 VAV 2.17	
211 L2 ElecRm_20065	AHU 5	MEP	124	0	80	65	0.01209	55	90	0.00848	149	0	0	1	0%	0	149	0	25	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 2.15	
212 L2 ElecRm_20068	AHU 5	MEP	103	0	80	65	0.01209	55	90	0.00848	123	0	0	1	0%	0	123	0	25	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 2.17	
213 L2 HubLounge_251	AHU 2	Lobby	931	16	75	70	0.01022	55	90	0.00848	8490	3698	-2482	9	130%	11004	-2514	450	-125	150	150	488	150	31%	60	70	85	150	1620	2482	0 VAV 2.16	YES
214 L2 HuddleCorridor	AHU 1	Corridor	608	0	80	65	0.01209	55	90	0.00848	1050	0	-130	2	0%	0	1050	0	50	25	50	50	50	100%	60	65	67	50	270	130	0 VAV 2.31	NO
215 L2 HuddleRm_210	AHU 2	Huddle	126	5	75	70	0.01022	55	90	0.00848	1783	775	0	14	0%	0	1783	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.10	NO
216 L2 HuddleRm_212	AHU 2	Huddle	100	5	75	70	0.01022	55	90	0.00848	1669	775	0	17	0%	0	1669	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.10	NO
217 L2 HuddleRm_214	AHU 2	Huddle	100	5	75	70	0.01022	55	90	0.00848	1669	775	0	17	0%	0	1669	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.11	NO
218 L2 HuddleRm_216	AHU 2	Huddle	97	5	75	70	0.01022	55	90	0.00848	1657	775	0	17	0%	0	1657	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.11	NO
219 L2 HuddleRm_218	AHU 2	Huddle	135	5	75	70	0.01022	55	90	0.00848	1826	775	0	13	0%	0	1826	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.14	NO
22 L0 LockerRm_B80	AHU 4	Corridor	423	5	80	65	0.01209	55	90	0.00848	1138	1000	-1752	3	0%	0	1138	75	50	25	50	75	50	67%	60	65	90	50	270	1350	402 VAV 0.14	
220 L2 HuddleRm_220	AHU 2	Huddle	108	5	75	70	0.01022	55	90	0.00848	1705	775	0	16	0%	0	1705	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.14	NO
221 L2 HuddleRm_252	AHU 1	Huddle	103	5	75	70	0.01022	55	90	0.00848	1684	775	0	16	0%	0	1684	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.23	NO
222 L2 HuddleRm_254	AHU 1	Huddle	99	5	75	70	0.01022	55	90	0.00848	1665	775	0	17	0%	0	1665	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.23	NO
223 L2 HuddleRm_255	AHU 1	Huddle	107	5	75	70	0.01022	55	90	0.00848	2631	918	-1351	25	105%	2751	-120	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	271 VAV 2.24	YES
224 L2 HuddleRm_256	AHU 1	Huddle	124	5	75	70	0.01022	55	90	0.00848	1774	775	0	14	0%	0	1774	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.23	NO
225 L2 HuddleRm_257	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216 VAV 2.24	YES
226 L2 HuddleRm_259	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2605	911	-1447	26	106%	2751	-146	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	367 VAV 2.24	YES
227 L2 HuddleRm_260	AHU 1	Huddle	146	5	75	70	0.01022	55	90	0.00848	1871	775	0	13	0%	0	1871	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.25	NO
228 L2 HuddleRm_261	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216 VAV 2.26	YES
229 L2 HuddleRm_262	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.25	NO
23 L0 LowerFoyer_B0046	AHU 5	Swing	1893	57	75	70	0.01022	55	90	0.00848	23634	11400	-4992	12	0%	0	23634	1375	1100	425	400	1375	425	29%	60	70	81	425	4590	4992	0 VAV 0.6	
230 L2 HuddleRm_263	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2649	911	-1830	26	104%	2751	-102	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	750 VAV 2.26	YES
231 L2 HuddleRm_264	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.27	NO
232 L2 HuddleRm_265	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2613	911	-1522	26	105%	2751	-138	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	442 VAV 2.28	YES
233 L2 HuddleRm_266	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.27	NO
234 L2 HuddleRm_267	AHU 1	Huddle	152	5	75	70	0.01022	55	90	0.00848	3269	1013	-1945	22	84%	2751	518	125	25	50	50	122	50	41%	60	70	90	50	540	1080	865 VAV 2.28	YES
235 L2 HuddleRm_268	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1667	775	0	17	0%	0	1667	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.29	NO
236 L2 HuddleRm_270	AHU 1	Huddle	97	5	75	70	0.01022	55	90	0.00848	1657	775	0	17	0%	0	1657	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.29	NO
237 L2 HuddleRm_271	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216 VAV 2.30	YES
238 L2 HuddleRm_273	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2584	933	-1293	26	106%	2751	-167	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	213 VAV 2.30	YES
239 L2 ConferenceRm_275	AHU 1	Conference	261	10	75	70	0.01022	55	90	0.00848	6742	2080	-4331	26	96%	6480	262	250	25	75	75	300	75	25%	60	70	90	75	810	1620	2711 VAV 2.32	YES
24 L0 MainElecRm_B0068	AHU 4	MEP	78	0	80	65	0.01209	55	90	0.00848	26	0	-141	0	0%	0	26	0	25	25	25	25	25	100%	60	65	70	25	135	141	0 VAV 0.8	
240 L2 HuddleRm_287	AHU 1	Huddle	139	5	75	70	0.01022	55	90	0.00848	1840	775	0	13	0%	0	1840	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.33	NO
241 L2 HuddleRm_289	AHU 1	Huddle	132	5	75	70	0.01022	55	90	0.00848	1811	775	0	14	0%	0	1811	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.33	NO
242 L2 HuddleRm_291	AHU 1	Huddle	131	5	75	70	0.01022	55	90	0.00848	1806	775	0	14	0%	0	1806	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.34	NO
243 L2 HuddleRm_293	AHU 1	Huddle	130	5	75	70	0.01022	55	90	0.00848	1801	775	0	14	0%	0	1801	100	100	50	50	100	50	50%	60	70	70	50	540	0	0 VAV 2.34	NO
244 L2 Janitor_20069	AHU 5	Corridor	104	0	80	65	0.01209	55	90	0.00848	178	0	0	2	0%	0	178	0	25	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 2.18	
245 L2 Library_235	AHU 2	Workspace	983	23	75	70	0.01022	55	90	0.00848	10841	3565	0	11	0%	0	10841	425	525	175	175	525	175	33%	60	70	70	175	1890	0	0 VAV 2.7	NO
246 L2 Library_281	AHU 1	Workspace	690	17	75	70	0.01022	55	90	0.00848	7816	2635	0	11	0%	0	7816	325	375	125	150	375	150	40%	60	70	70	150	1620	0	0 VAV 2.42	NO
247 L2 MultipurposeRm_205	AHU 5	Conference	566	46	75	70	0.01022	55	90	0.00848	13976	7130	0	25	0%	0	13976	850	650	275	275	850	275	32%	60	70	70	275	2970	0	0 VAV 2.2	
248 L2 OfficeZoneA_231_Ext1	AHU 2	Workspace	931	14	75	70	0.01022	55	90	0.00848	19156	2848	-10044	21	69%	13176	5980	350	300	125	150	450	150	33%	60	70	90	150	1620	3240	6804 VAV 2.5	YES
249 L2 OfficeZoneA_231_Ext2	AHU 2	Workspace	1042	14	75	70	0.01022	55	90	0.00848	20760	3240	-11906	20	63%	13176	7584	400	375	125	150	450	150	33%	60	70						



322 L3 HuddleRm_314	AHU 2	Huddle	100	5	75	70	0.01022	55	90	0.00848	1669	775	0	17	0%	0	1669	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.11	NO
323 L3 HuddleRm_316	AHU 2	Huddle	97	5	75	70	0.01022	55	90	0.00848	1657	775	0	17	0%	0	1657	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.11	NO
324 L3 HuddleRm_318	AHU 2	Huddle	135	5	75	70	0.01022	55	90	0.00848	1826	775	0	13	0%	0	1826	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.14	NO
325 L3 HuddleRm_320	AHU 2	Huddle	108	5	75	70	0.01022	55	90	0.00848	1705	775	0	16	0%	0	1705	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.14	NO
326 L3 HuddleRm_352	AHU 1	Huddle	103	5	75	70	0.01022	55	90	0.00848	1684	775	0	16	0%	0	1684	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.23	NO
327 L3 HuddleRm_354	AHU 1	Huddle	99	5	75	70	0.01022	55	90	0.00848	1665	775	0	17	0%	0	1665	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.23	NO
328 L3 HuddleRm_355	AHU 1	Huddle	104	5	75	70	0.01022	55	90	0.00848	2601	934	-1296	25	106%	2751	-150	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.24	YES
329 L3 HuddleRm_356	AHU 1	Huddle	124	5	75	70	0.01022	55	90	0.00848	1774	775	0	14	0%	0	1774	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.23	NO
33 L0 Vestibule_B0048	AHU 4	Corridor	98	0	80	65	0.01209	55	90	0.00848	82	0	-177	1	0%	0	82	0	25	25	25	25	100%	60	65	72	25	135	177	0	VAV 0.8		
330 L3 HuddleRm_357	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.24	YES
331 L3 HuddleRm_359	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.24	YES
332 L3 HuddleRm_360	AHU 1	Huddle	146	5	75	70	0.01022	55	90	0.00848	1871	775	0	13	0%	0	1871	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.25	NO
333 L3 HuddleRm_361	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.26	YES
334 L3 HuddleRm_362	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.25	NO
335 L3 HuddleRm_363	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.26	YES
336 L3 HuddleRm_364	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.27	NO
337 L3 HuddleRm_365	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.28	YES
338 L3 HuddleRm_366	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1668	775	0	17	0%	0	1668	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.27	NO
339 L3 HuddleRm_367	AHU 1	Huddle	152	5	75	70	0.01022	55	90	0.00848	3269	1013	-1945	22	84%	2751	518	125	25	50	50	122	50	41%	60	70	90	50	540	1080	865	VAV 3.28	YES
34 L0 WalkInRefrig_B04B	AHU 3	Storage	122	0	80	65	0.01209	55	90	0.00848	873	0	-1580	7	0%	0	873	0	50	25	25	50	25	50%	60	65	90	25	135	675	905	VAV 0.1	NO
340 L3 HuddleRm_368	AHU 1	Huddle	100	5	75	70	0.01022	55	90	0.00848	1667	775	0	17	0%	0	1667	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.29	NO
341 L3 HuddleRm_370	AHU 1	Huddle	97	5	75	70	0.01022	55	90	0.00848	1657	775	0	17	0%	0	1657	100	100	50	50	100	50	50%	60	70	70	50	540	0	0	VAV 3.29	NO
342 L3 HuddleRm_371	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2587	934	-1296	26	106%	2751	-164	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	216	VAV 3.30	YES
343 L3 HuddleRm_373	AHU 1	Huddle	101	5	75	70	0.01022	55	90	0.00848	2584	933	-1293	26	106%	2751	-167	125	-25	50	50	122	50	41%	60	70	90	50	540	1080	213	VAV 3.30	YES
344 L3 Janitor_30069	AHU 5	Corridor	100	0	80	65	0.01209	55	90	0.00848	171	0	0	2	0%	0	171	0	25	25	25	25	100%	60	65	65	25	135	0	0	VAV 3.18	NO	
345 L3 MultipurposeRm_305	AHU 5	Conference	566	46	75	70	0.01022	55	90	0.00848	13976	7130	0	25	0%	0	13976	850	650	275	275	850	275	32%	60	70	70	275	2970	0	0	VAV 3.2	NO
346 L3 OfficeZoneA_331_Ext2	AHU 2	Workspace	1039	14	75	70	0.01022	55	90	0.00848	21116	3244	-12090	20	62%	13176	7940	400	375	125	150	450	150	33%	60	70	90	150	1620	3240	8850	VAV 3.6	YES
347 L3 OfficeZoneA_331_Ext1	AHU 2	Workspace	931	14	75	70	0.01022	55	90	0.00848	19335	2848	-9076	21	68%	13176	6159	350	300	125	150	450	150	33%	60	70	90	150	1620	3240	5836	VAV 3.5	YES
348 L3 OfficeZoneB_383_Ext1	AHU 1	Workspace	1022	17	75	70	0.01022	55	90	0.00848	20514	3288	-9045	20	64%	13176	7338	400	350	125	150	450	150	33%	60	70	90	150	1620	3240	5805	VAV 3.19	YES
349 L3 OfficeZoneB_383_Ext2	AHU 1	Workspace	1067	17	75	70	0.01022	55	90	0.00848	21226	3316	-9439	20	62%	13176	8050	400	375	125	150	450	150	33%	60	70	90	150	1620	3240	6199	VAV 3.20	YES
35 L0 WaterServ_B0067	AHU 5	MEP	392	0	80	65	0.01209	55	90	0.00848	-216	0	-1438	-1	0%	0	-216	0	-25	0	25	25	25	100%	60	65	90	25	135	675	763		
350 L3 OfficeZoneB_383_Ext3	AHU 5	Workspace	1093	17	75	70	0.01022	55	90	0.00848	21642	3333	-9669	20	61%	13176	8466	400	400	125	175	450	175	39%	60	70	90	175	1890	3780	5889	VAV 3.35	YES
351 L3 OfficeZoneB_383_Ext4	AHU 1	Workspace	1162	17	75	70	0.01022	55	90	0.00848	22571	3377	-10197	19	58%	13176	9395	425	450	150	175	450	175	39%	60	70	90	175	1890	3780	6417	VAV 3.36	YES
352 L3 OfficeZoneB_383_Int1	AHU 1	Workspace	435	8	75	70	0.01022	55	90	0.00848	4263	1240	0	10	104%	4428	-165	150	-25	50	75	150	75	50%	60	70	70	75	810	0	0	VAV 3.21	YES
353 L3 OfficeZoneB_383_Int2	AHU 1	Workspace	454	8	75	70	0.01022	55	90	0.00848	4363	1240	0	10	101%	4428	-65	150	-25	50	75	150	75	50%	60	70	70	75	810	0	0	VAV 3.22	YES
354 L3 OfficeZoneB_383_Int3	AHU 1	Workspace	467	8	75	70	0.01022	55	90	0.00848	4433	1240	0	9	100%	4428	5	150	25	50	75	150	75	50%	60	70	70	75	810	0	0	VAV 3.37	YES
355 L3 OfficeZoneB_383_Int4	AHU 1	Workspace	515	8	75	70	0.01022	55	90	0.00848	4686	1240	0	9	94%	4428	258	150	25	50	75	150	75	50%	60	70	70	75	810	0	0	VAV 3.38	YES
356 L3 OfficeZoneC_315_Ext3	AHU 2	Workspace	822	12	75	70	0.01022	55	90	0.00848	12034	2679	-8837	15	109%	13176	-1142	325	-75	100	125	450	125	28%	60	70	90	125	1350	2700	6137	VAV 3.12	YES
357 L3 OfficeZoneC_315_Ext4	AHU 2	Workspace	940	10	75	70	0.01022	55	90	0.00848	12345	2534	-9619	13	107%	13176	-831	325	-50	100	125	450	125	28%	60	70	90	125	1350	2700	6919	VAV 3.13	YES
358 L3 OfficeZoneC_315_Ext2	AHU 2	Workspace	468	6	75	70	0.01022	55	90	0.00848	7291	1508	-6233	16	85%	6226	1065	200	50	75	75	200	75	38%	60	70	90	75	810	1620	4613	VAV 3.3	YES
359 L3 OfficeZoneC_315_Ext1	AHU 2	Workspace	36	0	75	70	0.01022	55	90	0.00848	841	359	-1851	23	0%	0	841	50	50	25	25	50	25	50%	60	70	90	25	270	540	1311	VAV 3.3	NO
36 L0 MechanicalRm_B0064	FCU	MEP	2200	0	80	65	0.01209	55	90	0.00848	-226	0	-5998	0	0%	0	-226	0	-25	0	150	150	150	100%	60	65	90	150	810	4050	1948		
360 L3 Pantry_340A	AHU 2	Storage	136	3	80	65	0.01209	55	90	0.00848	1029	600	0	8	0%	0	1029	50	50	25	50	50	50	100%	60	65	65	50	270	0	0	VAV 3.9	NO
361 L3 QuietRm_377	AHU 1	Huddle	251	6	75	70	0.01022	55	90	0.00848	6025	1531	-4913	24	78%	4716	1309	200	75	75	50	200	75	25%	60	70	90	75	810	1620	3293	VAV 3.34	YES
362 L3 SwingSpace_309	AHU 2	Swing	561	12	75	70	0.01022	55	90	0.00848	15117	2659	-7137	27	82%	12452	2665	325	125	100	100</												

444 L4 Janitor_40069	AHU 5	Corridor	100	0	80	65	0.01209	55	90	0.00848	171	0	0	2	0%	0	171	0	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 4.19		
445 L4 OfficeZoneA_431_Ext2	AHU 2	Workspace	999	14	75	70	0.01022	55	90	0.00848	26227	3296	-18019	26	55%	14460	11767	400	550	175	150	600	175	25%	60	70	90	175	1890	3780	14239 VAV 4.6	YES
446 L4 OfficeZoneA_431_Ext1	AHU 2	Workspace	894	14	75	70	0.01022	55	90	0.00848	23483	2848	-13072	26	62%	14460	9023	350	425	150	125	600	150	21%	60	70	90	150	1620	3240	9832 VAV 4.5	YES
447 L4 OfficeZoneB_483_Ext1	AHU 1	Workspace	1022	17	75	70	0.01022	55	90	0.00848	24919	3288	-13201	24	58%	14460	10459	400	500	150	150	600	150	25%	60	70	90	150	1620	3240	9961 VAV 4.20	YES
448 L4 OfficeZoneB_483_Ext2	AHU 1	Workspace	1067	17	75	70	0.01022	55	90	0.00848	25822	3316	-13776	24	56%	14460	11362	400	550	175	150	600	175	25%	60	70	90	175	1890	3780	9996 VAV 4.21	YES
449 L4 OfficeZoneB_483_Ext3	AHU 1	Workspace	1093	17	75	70	0.01022	55	90	0.00848	26350	3333	-14112	24	55%	14460	11890	400	575	175	175	600	175	29%	60	70	90	175	1890	3780	10332 VAV 4.37	YES
450 L4 OfficeZoneB_483_Ext4	AHU 1	Workspace	1166	17	75	70	0.01022	55	90	0.00848	26324	3379	-14523	23	55%	14460	11864	425	550	175	175	600	175	29%	60	70	90	175	1890	3780	10743 VAV 4.38	YES
451 L4 OfficeZoneB_483_Int1	AHU 1	Workspace	435	8	75	70	0.01022	55	90	0.00848	4645	1240	-572	11	95%	4428	217	150	25	50	75	150	75	50%	60	70	77	75	810	572	0 VAV 4.22	YES
452 L4 OfficeZoneB_483_Int2	AHU 1	Workspace	454	8	75	70	0.01022	55	90	0.00848	4762	1240	-597	10	93%	4428	334	150	25	50	75	150	75	50%	60	70	77	75	810	597	0 VAV 4.23	YES
453 L4 OfficeZoneB_483_Int3	AHU 1	Workspace	465	8	75	70	0.01022	55	90	0.00848	4830	1240	-611	10	92%	4428	402	150	25	50	75	150	75	50%	60	70	78	75	810	611	0 VAV 4.39	YES
454 L4 OfficeZoneB_483_Int4	AHU 1	Workspace	496	8	75	70	0.01022	55	90	0.00848	5022	1240	-652	10	88%	4428	594	150	50	50	75	150	75	50%	60	70	78	75	810	652	0 VAV 4.40	YES
455 L4 OfficeZoneC_415_Ext2	AHU 2	Workspace	822	12	75	70	0.01022	55	90	0.00848	13319	2679	-9613	16	99%	13176	143	325	25	100	125	450	125	28%	60	70	90	125	1350	2700	6913 VAV 4.12	YES
456 L4 OfficeZoneC_415_Ext3	AHU 2	Workspace	940	10	75	70	0.01022	55	90	0.00848	13890	2534	-10826	15	95%	13176	714	325	50	100	125	450	125	28%	60	70	90	125	1350	2700	8126 VAV 4.13	YES
457 L4 OfficeZoneC_415_Ext1	AHU 2	Workspace	472	6	75	70	0.01022	55	90	0.00848	10212	1763	-8882	22	61%	6226	3986	225	200	75	75	200	75	38%	60	70	90	75	810	1620	7262 VAV 4.3	YES
458 L4 Stair#5_40003	FCU	Corridor	983	0	80	65	0.01209	55	90	0.00848	25576	198	-32635	26	0%	0	25576	25	950	300	75	950	300	8%	60	65	90	300	1620	8100	24535	
459 L4 Pantry_440A	AHU 2	Storage	136	3	80	65	0.01209	55	90	0.00848	1029	600	0	8	0%	0	1029	50	50	25	50	50	100%	60	65	65	50	270	0	0 VAV 4.9	NO	
460 L4 QuietRm_477	AHU 1	Huddle	251	6	75	70	0.01022	55	90	0.00848	6194	1444	-5243	25	76%	4716	1478	175	75	75	50	200	75	25%	60	70	90	75	810	1620	3623 VAV 4.36	YES
461 L4 SwingSpace_409	AHU 2	Swing	549	12	75	70	0.01022	55	90	0.00848	12473	2656	-6437	23	100%	12452	21	325	25	100	100	400	100	25%	60	70	90	100	1080	2160	4277 VAV 4.3	YES
462 L4 TelRm_436	FCU	IT	113	0	80	65	0.01209	55	90	0.00848	11603	0	0	103	0%	0	11603	0	450	150	25	450	150	6%	60	65	65	150	810	0	0	
463 L4 TelRm_482	FCU	IT	111	0	80	65	0.01209	55	90	0.00848	11388	0	0	103	0%	0	11388	0	425	150	25	425	150	6%	60	65	65	150	810	0	0	
464 L4 VestMen_40028	AHU 5	Corridor	62	0	80	65	0.01209	55	90	0.00848	106	0	0	2	0%	0	106	0	25	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 4.19	
465 L4 VestWomen_40026	AHU 5	Corridor	54	0	80	65	0.01209	55	90	0.00848	92	0	0	2	0%	0	92	0	25	25	25	25	25	100%	60	65	65	25	135	0	0 VAV 4.19	
466 L4 Storage_476	AHU 1	Storage	54	0	80	65	0.01209	55	90	0.00848	151	0	-64	3	0%	0	151	0	25	25	25	25	25	100%	60	65	67	25	135	64	0 VAV 4.32	NO
5 L0 Corridor_B0050	AHU 4	Corridor	882	0	80	65	0.01209	55	90	0.00848	748	0	-1592	1	0%	0	748	0	50	25	75	75	75	100%	60	65	85	75	405	1592	0 VAV 0.8	
501 L5 EmergencyElec_50067	Unit Heater	MEP	507	0	80	65	0.01209	55	90	0.00848	606	0	-3581	1	0%	0	606	0	25	25	50	50	50	100%	60	65	90	50	270	1350	2231	
502 L5 EmerGeneratorRm_50064	FCU	MEP	316	0	80	65	0.01209	55	90	0.00848	1351	6	-2278	4	0%	0	1351	25	75	25	25	75	25	33%	60	65	90	25	135	675	1603	
503 L5 FiltrationRm_50061	Unit Heater	MEP	102	0	80	65	0.01209	55	90	0.00848	122	0	-1472	1	0%	0	122	0	25	25	25	25	25	100%	60	65	90	25	135	675	797	
504 L5 MainElec_50066	FCU	MEP	396	0	80	65	0.01209	55	90	0.00848	2372	0	-3635	6	0%	0	2372	0	100	50	25	100	50	25%	60	65	90	50	270	1350	2285	
505 L5 MechanicalRm_50062_A	Unit Heater	MEP	2529	0	80	65	0.01209	55	90	0.00848	3022	0	-11359	1	0%	0	3022	0	125	50	175	175	175	100%	60	65	90	175	945	4725	6634	
506 L5 MechanicalRm_50062_B	Unit Heater	MEP	2051	0	80	65	0.01209	55	90	0.00848	2452	0	-8060	1	0%	0	2452	0	100	50	125	125	125	100%	60	65	90	125	675	3375	4685	
507 L5 MechanicalRm_50062_C	Unit Heater	MEP	1813	0	80	65	0.01209	55	90	0.00848	2167	0	-5826	1	0%	0	2167	0	100	50	125	125	125	100%	60	65	90	125	675	3375	2451	
508 L5 MechanicalRm_50062_D	Unit Heater	MEP	183	0	80	65	0.01209	55	90	0.00848	219	0	-895	1	0%	0	219	0	25	25	25	25	25	100%	60	65	90	25	135	675	220	
509 L5 Stair#1_50001	Unit Heater	Corridor	289	0	80	65	0.01209	55	90	0.00848	494	0	-1571	2	0%	0	494	0	25	25	25	25	25	100%	60	65	90	25	135	675	896	
510 L5 Vestibule_50042	Unit Heater	Corridor	95	0	80	65	0.01209	55	90	0.00848	163	0	-1388	2	0%	0	163	0	25	25	25	25	25	100%	60	65	90	25	135	675	713	
6 L0 Corridor_Int	AHU 4	Corridor	238	0	80	65	0.01209	55	90	0.00848	1133	0	-1408	5	0%	0	1133	0	50	25	25	50	25	50%	60	65	90	25	135	675	733 VAV 0.7	
7 L0 CustodialRecycling_B0061	AHU 3	Corridor	580	0	80	65	0.01209	55	90	0.00848	-210	0	-2524	0	0%	0	-210	0	-25	0	50	50	50	100%	60	65	90	50	270	1350	1174 VAV 0.3	
8 L0 EFRm_B11	AHU 3	MEP	37	0	80	65	0.01209	55	90	0.00848	12	0	-67	0	0%	0	12	0	25	25	25	25	25	100%	60	65	67	25	135	67	0 VAV 0.4	
9 L0 ElevCntrRm_B0066	AHU 5	MEP	161	2	80	65	0.01209	55	90	0.00848	375	400	-669	2	0%	0	375	25	25	25	25	25	25	100%	60	65	90	25	135	669	0 VAV 0.6	

Global parameters:	
Air sensible heat factor	1.08 Btu/h/cfm°F
Air latent heat factor	4840 Btu/h/cfm
Waterside coefficient	500 Btu/h/gpm°F
Humidity ratio, 75°F 55% RH	0.01022 lbw/lbda
Humidity ratio, 53.0DB/99% RH	0.00848 lbw/lbda
Humidity ratio, 60.0DB/52.9WB	0.00692 lbw/lbda
Chilled beam % load to air	40%
LAT, reheat coils during reheat mode	70 °F
Delta T, reheat coils HHW	10 °F
Delta T, finned tube radiators HHW	10 °F
Min flow, reheat coils	0.3 gpm
Min flow, finned tube radiators	1 gpm
CFM rounding interval	25 cfm

18 April 2014

Psychrometric cooling calc:

			FROM 62.1				FROM 62.1													
ITEM	SERVES	PEAK SPACE LATENT	PEAK OA	LAT DB	LAT WB	LAT W	PEAK SA	PEAK RA	ROOM DB	ROOM WB	ROOM W	ROOM RH	SENSIBLE WHEEL EFFECT	LATENT WHEEL EFFECT	EQUIV OA DB	EQUIV OA WB	EQUIV OA W	MA DB	MA WB	MA W
		(BTU/H)	(CFM)	(°F)	(°F)		(CFM)	(CFM)	(°F)	(°F)		(%)	(%)	(%)	(°F)	(°F)		(°F)	(°F)	
AHU 1	Workspaces N	197,584	16,900	53.0	52.8	0.00848	24,200	7,300	75.0	63.9	0.01014	54.8	75%	75%	77.5	67.2	0.01190	76.7	66.2	0.01137
AHU 2	Workspaces S	92,823	7,000	53.0	52.8	0.00848	11,900	4,900	75.0	63.8	0.01007	54.4	75%	75%	77.5	67.1	0.01184	76.4	65.8	0.01111
AHU 3	Café	69,011	5,100	53.0	52.8	0.00848	11,600	6,500	75.0	63.2	0.00969	52.4	75%	75%	77.5	66.7	0.01156	76.1	64.8	0.01051
AHU 4	Seminar	107,924	10,300	53.0	52.8	0.00848	14,600	4,300	75.0	63.7	0.00999	54.0	75%	75%	77.5	67.0	0.01178	76.7	66.1	0.01125
AHU 5	Conference	70,961	6,300	53.0	52.8	0.00848	18,600	12,300	75.0	62.6	0.00926	50.1	75%	75%	77.5	66.3	0.01123	75.8	63.9	0.00993

Schedule information:

ITEM	SERVES	PEAK SA	PEAK OA	PEAK RA	SUPPLY FAN ESP	RETURN FAN ESP	OA %	MIN SA	TOTAL COOLING LOAD	SENSIBLE COOLING LOAD	LATENT COOLING LOAD	EAT DB	EAT WB	LAT DB	LAT WB	HEATING LOAD	EAT DB	LAT DB	GPM COOLING	EWT COOLING	LWT COOLING	GPM HEATING	EWT HEATING	LWT HEATING
		(CFM)	(CFM)	(CFM)	(IN WG)	(IN WG)		(CFM)	(BTU/H)	(BTU/H)	(BTU/H)	(°F)	(°F)	(°F)	(°F)	(BTU/H)	(°F)	(°F)						
AHU 1	Workspaces N	24,200	16,900	21,300	3.65	1.35	69.8%	24200	982,660	639,620	343,039	76.7	66.2	53.0	52.8	841,710	28.8	60.0	164	48.0	60.0	168	130.0	120.0
AHU 2	Workspaces S	11,900	7,000	10,400	3.26	0.96	58.8%	11900	464,654	310,946	153,708	76.4	65.8	53.0	52.8	327,722	35.3	60.0	77	48.0	60.0	66	130.0	120.0
AHU 3	Café	11,600	5,100	8,700	2.11	0.88	44.0%	11600	414,130	298,400	115,731	76.1	64.8	53.0	52.8	206,108	44.1	60.0	69	48.0	60.0	41	130.0	120.0
AHU 4	Seminar	14,600	10,300	12,700	3.35	1.62	70.5%	14600	584,735	386,171	198,564	76.7	66.1	53.0	52.8	514,657	28.4	60.0	97	48.0	60.0	103	130.0	120.0
AHU 5	Conference	18,600	6,300	12,600	2.88	0.90	33.9%	18600	605,375	473,341	132,034	75.8	63.9	53.0	52.8	207,000	50.0	60.0	101	48.0	60.0	41	130.0	120.0
									3,051,553	2,108,477	943,076					2,097,197								

89.3	1% cooling DB, °F
73	1% cooling DB, °F
0.01377	1% cooling HR, lb
84.8	1% enthalpy DB, °F
75.7	1% enthalpy DB, °F
0.01716	1% enthalpy HR, lb
11	99% heating DB, °F
1.1147	air sensible heat factor, Btu/h/°F/cfm
4906.9	air latent heat factor, Btu/h/cfm
500	water total heat factor, Btu/h/°F/gpm
3	supply fan heat gain, °F
19	altitude, FT
14.68591265	atm P, psi

Psychrometric heating calc:

ITEM	SERVES	FROM 62.1			FROM 62.1				
		HEAT OA	LAT DB	MIN SA	PEAK RA	ROOM DB	SENSIBLE WHEEL EFFECT	EQUIV OA DB	MA DB
		(CFM)		(CFM)	(CFM)	(°F)	(%)	(°F)	(°F)
AHU 1	Workspaces N	16,900	60.0	13,650	0	70.0	0%	11.0	11.0
AHU 2	Workspaces S	7,000	60.0	6,130	0	70.0	0%	11.0	11.0
AHU 3	Café	5,100	60.0	7,305	2,205	70.0	0%	11.0	28.8
AHU 4	Seminar	10,300	60.0	9,930	0	70.0	0%	11.0	11.0
AHU 5	Conference	6,300	60.0	12,940	6,640	70.0	0%	11.0	41.3

	Room DB	Room RH	Room HR	Room DP	SA DB	SA WB	SA	CHW	
	°F	%	lb	°F	°F	°F	HR	°F	
Cooling		75.0	55%	0.01022	57.8	55.0	53.7	0.0085	60

Tag	Manufacturer	Model	Length	DP	Primary	Air	Water	Total	Primary	Water	Water	Water	
			FT	in wg	Air	Sensible	Sensible	Sensible	Latent		EWT	LWT	
					cfm	BTU/h	BTU/h	BTU/h	BTU/h	gpm	°F	°F	
ACB-1.1	Swegon	Pacific		4	0.5	50	1074	1476	2550	416	0.491	60	66
ACB-1.2	Swegon	Pacific		4	0.5	75	1611	1625	3236	624	0.541	60	66
ACB-2.1	Swegon	Pacific		6	0.5	50	1074	1992	3066	416	0.663	60	66
ACB-2.2	Swegon	Pacific		6	0.4	75	1611	2196	3807	624	0.731	60	66
ACB-2.3	Swegon	Pacific		6	0.4	100	2148	2410	4558	832	0.802	60	66
ACB-2.4	Swegon	Pacific		6	0.7	122	2620	2751	5371	1016	0.916	60	66
ACB-3.1	Swegon	Pacific		8	0.4	75	1611	2574	4185	624	0.857	60	66
ACB-3.2	Swegon	Pacific		8	0.4	100	2148	3113	5261	832	1.036	60	66
ACB-3.3	Swegon	Pacific		8	0.4	125	2685	3240	5925	1041	1.078	60	66
ACB-3.4	Swegon	Pacific		8	0.6	150	3240	3240	6480	1249	1.078	60	66

Air sensible heat factor	1.08 Btu/h/cfm/°F
Air latent heat factor	4840 Btu/h/cfm
Waterside coefficient	500 Btu/h/gpm/°F

System	Room	Zone	Area	Sensible	Latent	Heating	Min OA	ACB (i)	ACB (i) qty	ACB (ii)	ACB (ii) qty	Diff Sens	Diff Lat	Diff OA	Total SA	Secondary	Secondary	Sens Capaci	Notes
			SF	BTU/h	BTU/h	BTU/h	cfm	tag	#			BTU/h	BTU/h	cfm	cfm	BTU/h	CHW	%	
AHU-1 Workspaces N	126 L1 HuddleRm_179	VAV 1.27	103	5622	998	-2536	50	ACB-2.4			1	-251	18	72	122	2751	1	49%	meet 95% of sensible load
AHU-1 Workspaces N	134 L1 LockerRm_168_Ext	VAV 1.33	211	1452	783	-2734	25	ACB-1.1			2	3648	49	75	100	2952	1	203%	
AHU-1 Workspaces N	135 L1 LockerRm_168_Int	VAV 1.33	104	349	200	-163	25					#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	see 168_ext
AHU-1 Workspaces N	145 L1 MastersStudio_191_Ext1	VAV 1.29	798	34384	5728	-15093	325	ACB-3.4			5	-1984	516	425	750	16200	5	47%	sensible covered by 191_ext2
AHU-1 Workspaces N	146 L1 MastersStudio_191_Ext2	VAV 1.37	416	19697	4431	-9481	250	ACB-3.3			6	15853	1813	500	750	19440	6	99%	
AHU-1 Workspaces N	147 L1 MastersStudio_191_Ext3	VAV 1.36	780	22590	3483	-19886	225	ACB-3.2			5	3715	679	275	500	15565	5	69%	
AHU-1 Workspaces N	148 L1 MastersStudio_191_Ext4	VAV 1.33	530	17085	3685	-13264	225	ACB-3.4			3	2355	61	225	450	9720	3	57%	
AHU-1 Workspaces N	149 L1 MastersStudio_191_Int1	VAV 1.30	1048	18158	8800	0	575	ACB-3.4			6	20722	-1308	325	900	19440	6	107%	latent covered by 191_ext1 & 2
AHU-1 Workspaces N	150 L1 MastersStudio_191_Int2	VAV 1.39	425	7659	4000	-1377	275	ACB-3.4			3	11781	-254	175	450	9720	3	127%	latent covered by 191_ext1 & 2
AHU-1 Workspaces N	151 L1 MastersStudio_191_Int3	VAV 1.39A	353	7206	4000	-1144	250	ACB-3.4			3	12234	-254	200	450	9720	3	135%	latent covered by 191_ext3
AHU-1 Workspaces N	152 L1 MastersStudio_191_Int4	VAV 1.32	701	9021	3400	-81	275	ACB-2.4			4	12463	663	213	488	11004	4	122%	
AHU-1 Workspaces N	154 L1 QuietRm_197	VAV 1.38	732	23598	5358	-18962	300	ACB-2.4			6	8628	736	432	732	16506	5	70%	edited ppl count from RDS
AHU-1 Workspaces N	206 L2 CollabArea_295	VAV 2.41	679	11289	3323	-7796	125	ACB-3.4		ACB-2.3	1	6229	7	275	400	8890	3	79%	space became Swing space, higher latent l
AHU-2 Workspaces S	213 L2 HubLounge_251	VAV 2.16	931	8490	3698	-2482	150	ACB-2.4			4	12994	365	338	488	11004	4	130%	
AHU-1 Workspaces N	223 L2 HuddleRm_255	VAV 2.24	107	2631	918	-1351	50	ACB-2.4			1	2740	97	72	122	2751	1	105%	
AHU-1 Workspaces N	225 L2 HuddleRm_257	VAV 2.24	101	2587	934	-1296	50	ACB-2.4			1	2784	82	72	122	2751	1	106%	
AHU-1 Workspaces N	226 L2 HuddleRm_259	VAV 2.24	101	2605	911	-1447	50	ACB-2.4			1	2766	105	72	122	2751	1	106%	
AHU-1 Workspaces N	228 L2 HuddleRm_261	VAV 2.26	101	2587	934	-1296	50	ACB-2.4			1	2784	82	72	122	2751	1	106%	
AHU-1 Workspaces N	230 L2 HuddleRm_263	VAV 2.26	101	2649	911	-1830	50	ACB-2.4			1	2722	105	72	122	2751	1	104%	
AHU-1 Workspaces N	232 L2 HuddleRm_265	VAV 2.28	101	2613	911	-1522	50	ACB-2.4			1	2758	105	72	122	2751	1	105%	
AHU-1 Workspaces N	234 L2 HuddleRm_267	VAV 2.28	152	3269	1013	-1945	50	ACB-2.4			1	2102	3	72	122	2751	1	84%	
AHU-1 Workspaces N	237 L2 HuddleRm_271	VAV 2.30	101	2587	934	-1296	50	ACB-2.4			1	2784	82	72	122	2751	1	106%	
AHU-1 Workspaces N	238 L2 HuddleRm_273	VAV 2.30	101	2584	933	-1293	50	ACB-2.4			1	2787	82	72	122	2751	1	106%	
AHU-1 Workspaces N	239 L2 ConferenceRm_275	VAV 2.32	261	6742	2080	-4331	75	ACB-3.4			2	6218	417	225	300	6480	2	96%	
AHU-2 Workspaces S	248 L2 OfficeZoneA_231_Ext1	VAV 2.5	931	19156	2848	-10044	150	ACB-2.2			6	3686	898	300	450	13176	4	69%	
AHU-2 Workspaces S	249 L2 OfficeZoneA_231_Ext2	VAV 2.6	1042	20760	3240	-11906	150	ACB-2.2			6	2082	506	300	450	13176	4	63%	
AHU-1 Workspaces N	250 L2 OfficeZoneB_283_Ext1	VAV 2.19	1022	20444	3288	-9045	150	ACB-2.2			6	2398	458	300	450	13176	4	64%	
AHU-1 Workspaces N	251 L2 OfficeZoneB_283_Ext2	VAV 2.20	1067	21153	3316	-9439	150	ACB-2.2			6	1689	430	300	450	13176	4	62%	
AHU-1 Workspaces N	252 L2 OfficeZoneB_283_Ext3	VAV 2.36	1093	21567	3333	-9669	175	ACB-2.2			6	1275	413	275	450	13176	4	61%	
AHU-1 Workspaces N	253 L2 OfficeZoneB_283_Ext4	VAV 2.37	842	17576	3173	-7451	150	ACB-2.2			6	5266	573	300	450	13176	4	75%	
AHU-1 Workspaces N	254 L2 OfficeZoneB_283_Ext5	VAV 2.40	1075	22258	5010	-22154	200	ACB-3.4		ACB-1.1	1	6212	401	450	650	14436	5	65%	
AHU-1 Workspaces N	255 L2 OfficeZoneB_283_Int1	VAV 2.21	435	4263	1240	0	75	ACB-1.1			3	3387	9	75	150	4428	1	104%	
AHU-1 Workspaces N	256 L2 OfficeZoneB_283_Int2	VAV 2.22	454	4363	1240	0	75	ACB-1.1			3	3287	9	75	150	4428	1	101%	



AHU-1 Workspaces N	257 L2 OfficeZoneB_283_Int3	VAV 2.38	465	4421	1240	0	75	ACB-1.1	3		3229	9	75	150	4428	1	100%	latent covered by swing 209	
AHU-1 Workspaces N	258 L2 OfficeZoneB_283_Int4	VAV 2.39	358	3857	1240	0	75	ACB-1.1	3		3793	9	75	150	4428	1	115%		
AHU-2 Workspaces S	259 L2 OfficeZoneC_215_Ext1	VAV 2.3	505	5701	1874	-5074	75	ACB-3.2	2		4821	-210	125	200	6226	2	109%		
AHU-2 Workspaces S	260 L2 OfficeZoneC_215_Ext2	VAV 2.12	822	12800	2679	-8837	125	ACB-2.2	6		10042	1067	325	450	13176	4	103%		
AHU-2 Workspaces S	261 L2 OfficeZoneC_215_Ext3	VAV 2.13	746	11736	2353	-8593	100	ACB-2.2	6		11106	1393	350	450	13176	4	112%		
AHU-1 Workspaces N	263 L2 QuietRm_277	VAV 2.35	251	6240	1531	-4913	50	ACB-3.4	1	ACB-1.1	1	2790	134	150	200	4716	2		76%
AHU-2 Workspaces S	265 L2 SwingSpace_209	VAV 2.3	561	15107	2659	-7126	100	ACB-3.2	4		5937	671	300	400	12452	4	82%		
AHU-1 Workspaces N	308 L3 CollabArea_395	VAV 3.39	505	8119	2451	-4018	100	ACB-3.4	2		4841	46	200	300	6480	2	80%		
AHU-1 Workspaces N	311 L3 ConferenceRm_375	VAV 3.32	261	6742	2080	-4331	75	ACB-3.4	2		6218	417	225	300	6480	2	96%		
AHU-1 Workspaces N	312 L3 ConferenceRm_397	VAV 3.41	302	14837	2013	-10974	75	ACB-3.3	2	ACB-1.2	1	249	692	250	325	8105	3		55%
AHU-1 Workspaces N	313 L3 ConferenceRm_398	VAV 3.40	418	11580	2226	-12238	75	ACB-3.3	2	ACB-1.2	1	3506	479	250	325	8105	3	70%	
AHU-2 Workspaces S	318 L3 HubLounge_351	VAV 3.16	746	7508	3546	-1596	125	ACB-2.4	4		13976	517	363	488	11004	4	147%		
AHU-1 Workspaces N	328 L3 HuddleRm_355	VAV 3.24	104	2601	934	-1296	50	ACB-2.4	1		2770	82	72	122	2751	1	106%		
AHU-1 Workspaces N	330 L3 HuddleRm_357	VAV 3.24	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	331 L3 HuddleRm_359	VAV 3.24	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	333 L3 HuddleRm_361	VAV 3.26	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	335 L3 HuddleRm_363	VAV 3.26	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	337 L3 HuddleRm_365	VAV 3.28	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	339 L3 HuddleRm_367	VAV 3.28	152	3269	1013	-1945	50	ACB-2.4	1		2102	3	72	122	2751	1	84%		
AHU-1 Workspaces N	342 L3 HuddleRm_371	VAV 3.30	101	2587	934	-1296	50	ACB-2.4	1		2784	82	72	122	2751	1	106%		
AHU-1 Workspaces N	343 L3 HuddleRm_373	VAV 3.30	101	2584	933	-1293	50	ACB-2.4	1		2787	82	72	122	2751	1	106%		
AHU-2 Workspaces S	346 L3 OfficeZoneA_331_Ext2	VAV 3.6	1039	21116	3244	-12090	150	ACB-2.2	6		1726	502	300	450	13176	4	62%		
AHU-2 Workspaces S	347 L3 OfficeZoneA_331_Ext1	VAV 3.5	931	19335	2848	-9076	150	ACB-2.2	6		3507	898	300	450	13176	4	68%		
AHU-1 Workspaces N	348 L3 OfficeZoneB_383_Ext1	VAV 3.19	1022	20514	3288	-9045	150	ACB-2.2	6		2328	458	300	450	13176	4	64%		
AHU-1 Workspaces N	349 L3 OfficeZoneB_383_Ext2	VAV 3.20	1067	21226	3316	-9439	150	ACB-2.2	6		1616	430	300	450	13176	4	62%		
AHU-1 Workspaces N	350 L3 OfficeZoneB_383_Ext3	VAV 3.35	1093	21642	3333	-9669	175	ACB-2.2	6		1200	413	275	450	13176	4	61%		
AHU-1 Workspaces N	351 L3 OfficeZoneB_383_Ext4	VAV 3.36	1162	22571	3377	-10197	175	ACB-2.2	6		271	369	275	450	13176	4	58%		
AHU-1 Workspaces N	352 L3 OfficeZoneB_383_Int1	VAV 3.21	435	4263	1240	0	75	ACB-1.1	3		3387	9	75	150	4428	1	104%		
AHU-1 Workspaces N	353 L3 OfficeZoneB_383_Int2	VAV 3.22	454	4363	1240	0	75	ACB-1.1	3		3287	9	75	150	4428	1	101%		
AHU-1 Workspaces N	354 L3 OfficeZoneB_383_Int3	VAV 3.37	467	4433	1240	0	75	ACB-1.1	3		3217	9	75	150	4428	1	100%		
AHU-1 Workspaces N	355 L3 OfficeZoneB_383_Int4	VAV 3.38	515	4686	1240	0	75	ACB-1.1	3		2964	9	75	150	4428	1	94%		
AHU-2 Workspaces S	356 L3 OfficeZoneC_315_Ext3	VAV 3.12	822	12034	2679	-8837	125	ACB-2.2	6		10808	1067	325	450	13176	4	109%		
AHU-2 Workspaces S	357 L3 OfficeZoneC_315_Ext4	VAV 3.13	940	12345	2534	-9619	125	ACB-2.2	6		10497	1212	325	450	13176	4	107%		
AHU-2 Workspaces S	358 L3 OfficeZoneC_315_Ext2	VAV 3.3	468	7291	1508	-6233	75	ACB-3.2	2		3231	157	125	200	6226	2	85%		
AHU-2 Workspaces S	359 L3 OfficeZoneC_315_Ext1	VAV 3.3	36	841	359	-1851	25			#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	see 315_ext2	
AHU-1 Workspaces N	361 L3 QuietRm_377	VAV 3.34	251	6025	1531	-4913	50	ACB-3.4	1	ACB-1.1	1	3005	134	150	200	4716	2	78%	
AHU-2 Workspaces S	362 L3 SwingSpace_309	VAV 3.3	561	15117	2659	-7137	100	ACB-3.2	4		5927	671	300	400	12452	4	82%		
AHU-1 Workspaces N	409 L4 CollabArea_495	VAV 4.41	436	9237	2454	-5234	100	ACB-3.4	2		3723	43	200	300	6480	2	70%		
AHU-1 Workspaces N	412 L4 ConferenceRm_475	VAV 4.33	261	6914	2003	-4675	75	ACB-2.4	2		3828	28	169	244	5502	2	80%		
AHU-1 Workspaces N	413 L4 ConferenceRm_497	VAV 4.42	778	27348	4245	-15743	150	ACB-3.2	6		4218	750	450	600	18678	6	68%		
AHU-2 Workspaces S	418 L4 HubLounge_451	VAV 4.17	747	8102	3501	-2549	125	ACB-2.4	4		13382	562	363	488	11004	4	136%		
AHU-1 Workspaces N	428 L4 HuddleRm_455	VAV 4.25	107	2737	962	-1510	50	ACB-2.4	1		2634	54	72	122	2751	1	101%		
AHU-1 Workspaces N	430 L4 HuddleRm_457	VAV 4.25	101	2656	952	-1430	50	ACB-2.4	1		2715	64	72	122	2751	1	104%		
AHU-1 Workspaces N	431 L4 HuddleRm_459	VAV 4.25	101	2656	952	-1430	50	ACB-2.4	1		2715	64	72	122	2751	1	104%		
AHU-1 Workspaces N	433 L4 HuddleRm_461	VAV 4.27	101	2656	952	-1430	50	ACB-2.4	1		2715	64	72	122	2751	1	104%		
AHU-1 Workspaces N	435 L4 HuddleRm_463	VAV 4.27	101	2656	952	-1430	50	ACB-2.4	1		2715	64	72	122	2751	1	104%		
AHU-1 Workspaces N	437 L4 HuddleRm_465	VAV 4.29	101	2656	952	-1430	50	ACB-2.4	1		2715	64	72	122	2751	1	104%		
AHU-1 Workspaces N	439 L4 HuddleRm_467	VAV 4.29	152	3360	978	-2122	50	ACB-2.4	1		2011	37	72	122	2751	1	82%		
AHU-1 Workspaces N	442 L4 HuddleRm_471	VAV 4.31	101	2623	952	-1365	50	ACB-2.4	1		2748	64	72	122	2751	1	105%		
AHU-1 Workspaces N	443 L4 HuddleRm_473	VAV 4.31	101	2653	951	-1426	50	ACB-2.4	1		2718	64	72	122	2751	1	104%		
AHU-2 Workspaces S	445 L4 OfficeZoneA_431_Ext2	VAV 4.6	999	26227	3296	-18019	150	ACB-2.3	6		1121	1699	450	600	14460	5	55%		
AHU-2 Workspaces S	446 L4 OfficeZoneA_431_Ext1	VAV 4.5	894	23483	2848	-13072	125	ACB-2.3	6		3865	2147	475	600	14460	5	62%		
AHU-1 Workspaces N	447 L4 OfficeZoneB_483_Ext1	VAV 4.20	1022	24919	3288	-13201	150	ACB-2.3	6		2429	1707	450	600	14460	5	58%		
AHU-1 Workspaces N	448 L4 OfficeZoneB_483_Ext2	VAV 4.21	1067	25822	3316	-13776	150	ACB-2.3	6		1526	1679	450	600	14460	5	56%		
AHU-1 Workspaces N	449 L4 OfficeZoneB_483_Ext3	VAV 4.37	1093	26350	3333	-14112	175	ACB-2.3	6		998	1662	425	600	14460	5	55%		
AHU-1 Workspaces N	450 L4 OfficeZoneB_483_Ext4	VAV 4.38	1166	26324	3379	-14523	175	ACB-2.3	6		1024	1615	425	600	14460	5	55%		
AHU-1 Workspaces N	451 L4 OfficeZoneB_483_Int1	VAV 4.22	435	4645	1240														

AHU-2 Workspaces S	461 L4 SwingSpace_409	VAV 4.3	549	12473	2656	-6437	100	ACB-3.2	4		8571	673	300	400	12452	4	100%	
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