ARUP 225121/CGB First Academic Building 18 April 2014

16 Арін 2				Space Temperatures	Supply Air Temper	tures	Cooling Load Co	oling Load Heating Load Cooling	ACB Sens ACB	Airside	Airflow Sizing Latent !	Max Min				V reheat coil Reheat Reheat	Heat	Heating R	heat Space	Remaining FTR	
Room	System	Space Type	Area People sf qty	Cooling Heating F F	HR Cooling Heat		-	tent Sensible Sensible	Capacity Sensible % Btuh		Cooling		OA Max cfm cfm	Min cfm	Percent % F	EAT LAT	LAT F	Min I	oad Heating tu/h Btuh	Heating	AV Zone ACB (Y/N)
1 L0 Bathroom_B00A 10 L0 ElevMachRm_B0062 101 L1-4 Arrium 102 L1 Bathroom 103 L1 BathroomMen_10020 104 L1 BathroomMen_10020 105 L1 Cafe_101_SE1 106 L1 Cafe_101_SE2 107 L1 Cafe_101_SW1 108 L1 Cafe_101_SW2 109 L1 Cafe_101_W 11 L0 EventStorage_B16 110 L1 ControlRoom_131A 111 L1 Corridor_10049 113 L1 Corridor_10049 113 L1 Corridor_10050 114 L1 ElevLobby_10046_Int1 116 L1 ElevLobby_1002	AHU 4 FCU AHU 5 AHU 5 AHU 3 AHU 5	Corridor MEP Lobby Corridor Corridor Corridor Cafe Cafe Cafe Cafe Storage IT Corridor Corridor Corridor Corridor Corridor Corridor Corridor Lobby Lobby	841 52 355 685 147 176 482 569 703 433 250 410 113 120 341 643 102 1411 1232	1 80 6 75 0 80 0 80 0 80 20 75 220 75 44 75 28 75 5 75 0 80 2 80 0 80 0 80 0 80 0 80	65 0.01209 55 65 0.01209 55 70 0.01022 55 65 0.01209 55 65 0.01209 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 67 0.01022 55 68 0.01209 55 69 0.01209 55 69 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55 60 0.01209 55	90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848	1887 268 58865 1170 252 300 13734 14152 25825 13533 15757 489 12167 205 531 1099 122 8490 7150	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0% 5 0% 66 0% 2 0% 2 0% 2 0% 2 0% 37 0% 31 0% 63 0% 1 0% 107 0% 2 0% 2 0% 2 0% 6 0% 6 0%	0 188 0 20 5886 0 117 0 22 0 336 0 137 0 141 0 258 0 157 0 1216 0 20 0 50 0 10 0 10 0 17	\$88 25 \$55 375 \$70 0 \$22 0 \$00 0 \$64 675 \$52 700 \$25 1800 \$33 950 \$57 350 \$69 0 \$61 25 \$63 25 \$63 25 \$64 25 \$65	75 25 25 25 2750 825 50 25 25 25 25 25 650 225 675 225 1200 550 650 300 750 225 25 25 25 25 475 150 25 25 25 25 50 25 300 25 300 25 25 25 25	75 25 75 50 25 25 25 25 275 475 300 100 50 25 25 25 25 25 50 25 150	2750 50 25 50 25 675 700 1800 950 750 50 475 25 50 25 400 350 350	75 100% 26 100% 27 100%	60 65 60 65 60 70 60 65 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 65 60 65 60 65 60 65 60 65	90 68 90 65 65 65 90 90 90 87 99 65 65 65 65 72	75 25 825 825 50 25 50 25 25 250 275 550 300 225 50 150 25 50 25 150 25 25	135 8910 178 270 135 135 2700 5-5 2970 55 5940 118 3240 5- 2430 48 2430 48 10 135 135 270 135 135 135 135 1620 12 1350 14	0 0 VAV 1.25 0 0 VAV 1.25 0 0 VAV 1.12 0 0 VAV 1.12 00 2733 VAV 1.7 40 2575 VAV 1.6 80 8645 VAV 1.2 2 99 0 VAV 1.5 60 4225 VAV 1.1 40 0 VAV 0.4 0 0 0 VAV 1.26 7/5 312 VAV 1.26 0 0 VAV 1.26 0 0 VAV 1.26 8 0 VAV 1.18 48 0 VAV 1.18	t VAV 1.40
117 L1 ExitCorridor_10043 118 L1 HuddleRm_170 119 L1 HuddleRm_172 12 L0 SecEquipRm_B0070 120 L1 HuddleRm_173 121 L1 HuddleRm_174 122 L1 HuddleRm_175 123 L1 HuddleRm_176 124 L1 HuddleRm_176 124 L1 HuddleRm_176 125 L1 HuddleRm_178 126 L1 HuddleRm_179 127 L1 HuddleRm_19 128 L1 HuddleRm_19 128 L1 HuddleRm_195 129 L1 HuddleRm_194 13 L0 FoodPrep_B04 13 L0 FoodPrep_B04 13 L1 Janitor_10065 133 L1 LectureHall_131	Unit Heater AHU 1	Corridor Huddle Huddle MEP Huddle Luddle Huddle Huddle Huddle Luddle Lud	269 93 93 241 89 89 89 89 89 103 88 89 88 641 57 916	5 75 5 75 3 80 5 75 5 75 5 75 5 75 5 75 5 75 5 75 5 7	65 0.01209 55 70 0.01022 55 70 0.01022 55 65 0.01209 55 70 0.01022 55	90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848	459 1586 1625 593 1619 1622 1619 1622 1622 1622 5622 1616 15070 97 22917	0 -787 775 -301 775 -81 600 -935 775 0 775 0 775 0 775 0 775 0 775 0 775 0 775 0 775 0 775 0 775 0 775 0 998 -2536 775 0 775 0 775 0 0 0 0 10540 0	2 0% 17 0% 17 0% 18 0% 18 0% 18 0% 18 0% 18 0% 18 0% 18 0% 18 0% 18 0% 18 0% 24 49% 18 0% 18 0% 24 0% 25 0%	0 44: 0 158: 0 160: 0 59: 0 161: 0 166: 0 166: 0 166: 0 166: 0 166: 0 166: 0 166: 0 166: 0 166: 0 166: 0 160: 0 2751 288: 0 161: 0 160: 0 150: 0 290:	366 100 25 100 33 50 19 100 22 100 22 100 22 100 22 100 22 100 22 100 21 100 22 100 71 125 166 100 70 50 70 70 70 71 1275	25 25 75 50 100 50 25 25 75 50 100 50 100 50 100 50 150 50 75 50 100 50 75 50 75 50 75 50 75 50 700 225 25 25 1075 400	25 50 50 50 50 50 50 50 50 50 50 50 50 50	100 100 50 100 100 100 100 100 100 122 100 100 10	25 100% 50 50% 50 50% 50 100% 50 100% 50 50% 50	60 65 60 70 60 70 60 65 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70	90 76 72 82 70 70 70 70 70 90 70 70 70 70 70	25 50 50 50 50 50 50 50 50 50 50 50 50 50	540 270 540 540 540 540 540 540 540 540 540 54	775 112 01 0 VAV 1.31 81 0 VAV 1.31 81 0 VAV 1.33 35 0 VAV 0.8 0 0 VAV 1.28 0 0 VAV 1.28 0 0 VAV 1.24 0 0 VAV 1.34 0 0 VAV 1.34 0 0 VAV 1.37 0 0 VAV 1.35	NO YES NO NO NO
134 L1 LockerRm_168_Ext 135 L1 LockerRm_168_Int 136 L1 MainRm_154 137 L1 MainDisconnect_10070 138 L1 MainLounge_115_Ext1 139 L1 MainLounge_115_Ext2 14 L0 Storage_B15 140 L1 MainLounge_115_Ext3 141 L1 MainLounge_115_Ext4 142 L1 MainLounge_115_Int 143 L1 MainLouby_10047_Ext1 144 L1 MainLouby_10047_Ext1 144 L1 MainLouby_10047_Ext2 145 L1 MastersStudio_191_Ext2 147 L1 MastersStudio_191_Ext3 148 L1 MastersStudio_191_Ext3 149 L1 MastersStudio_191_Int1 15 L0 FoodServOff_B04C 150 L1 MastersStudio_191_Int1 15 L0 FoodServOff_B04C 150 L1 MastersStudio_191_Int1	AHU 1 AHU 5 AHU 5 AHU 5 AHU 3 AHU 1	Corridor Corridor Huddle MEP Lobby Lobby Storage Lobby Lobby Lobby Lobby Lobby Masters	211 104 297 120 319 249 306 234 573 561 765 383 798 416 780 530 1048 84 425 353	1 80 2 75 0 80 16 75 4 75 2 80 10 75 40 75 31 75 8 75 4 75 22 75 20 75 12 75 14 75 1 75 24 75 22 75 20 75 12 75 15 75 44 75 22 75 20 75	65 0.01209 55 70 0.01022 55	90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848	1452 349 2315 143 13147 6835 319 6941 16317 10010 12682 6887 34384 19697 22590 17085 18158 590 7659 7206	783 -2734 200 -163 745 -2517 0 0 0 5121 -15762 1791 -8537 400 -1696 2765 -6904 8786 -10756 6200 -438 2371 -15123 1137 -6439 5728 -15093 4431 -9481 3483 -19886 3685 -13264 8800 0 155 -557 4000 -1377	32 57% 17 107% 7 0% 18 127% 20 135%	2952 -156 0 34 0 231 0 14 0 1314 0 688 0 31 0 694 0 1631 0 1000 0 1266 0 688 16200 1818 19440 25 15565 700 27 19440 -128 0 5 9720 -200 9720 -251	49 25 15 100 13 0 47 625 15 225 19 25 41 350 17 1050 10 750 32 300 37 150 44 700 55 425 55 450 32 1050 00 25 51 475 44 475	-75 25 25 25 125 50 25 25 25 20 325 20 325 100 25 25 325 125 775 325 475 225 600 200 325 105 850 275 25 175 350 150 -75 325 50 25 -100 150 -125 150	25 50 25 100 50 50 75 250 200 100 50 325 250 225 225 225 275 250	25 125 25 625 325 50 350 1050 750 600 325 750 500 450 900 50 450	25 25% 25 100% 50 40% 25 100% 25 100% 25 100% 16% 50 100% 225 21% 225 27% 220 17% 225 24% 225 43% 225 43% 225 45% 250 33% 250 33% 250 45% 257 60% 257 61% 250 66%	60 65 60 70 60 70 60 65 60 70 60 65 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70	90 71 90 65 90 90 90 90 90 90 90 90 90 90 90 90 90	25 25 50 25 200 100 50 125 325 225 200 100 325 225 250 225 225 575 25 275 250	135 1.5440 10.5540 10.	0 0 VAV 1.26 0 11442 VAV 1.10 610 6377 VAV 1.9 550 346 VAV 0.5 00 4204 VAV 1.13 220 3736 VAV 1.14 238 0 VAV 1.14 220 10803 VAV 1.21 220 8073 VAV 1.21 220 8073 VAV 1.22 230 4081 VAV 1.37 660 15026 VAV 1.36 660 8404 VAV 1.33 0 0 VAV 1.30 40 17 VAV 0.1 77 0 VAV 1.39 44 0 VAV 1.39	YES YES YES YES YES YES
152 L1 MastersStudio_191_Int4 153 L1 PizzaOven 154 L1 QuietRm_197 155 L1 Reception_152 156 L1 RPZ_10063 157 L1 SeminarRm_161 158 L1 SeminarRm_165 159 L1 Servery_108_E 161 L5 FoodStorage_B04A 160 L1 Servery_108_SE 161 L1 Servery_108_SE 161 L1 Servery_108_SW 162 L1 ServiceCorridor_10040 163 L1 Storage_104 164 L1 Storage_167 166 L1 TelRm_164 167 L1 Vestibule_10048 168 L1 VestMen_10028 169 L1 VestMen_10054 17 L0 FoodWaste_B04D 170 L1 VestServCorr 171 L1 VestWomen_10026 172 L1 VestWomen_10053 173 L1-4 Stair_West 174 L1 Stair#2_10008 18 L0 FuelOilRm_B0065 19 L0 TITCPOL_B72 2 L0 Bathroom_B00B	AHU 1 FCU AHU 1 AHU 5 AHU 5 AHU 4 AHU 4 AHU 3 AHU 3 AHU 3 AHU 3 AHU 3 AHU 3 AHU 5 AHU 3 AHU 3 AHU 3 AHU 15 AHU 10 A	Masters Food Masters Lobby MEP Seminar Seminar Food Storage Food Food Corridor Food Storage Storage IT Corridor	701 251 732 302 32 1108 1134 423 83 732 364 152 167 46 78 113 224 81 33 88 59 63 39 369 388 132 147 729	0 75 20 75 20 75 0 80 94 75 94 75 9 75 0 80 15 75 8 75 0 80 1 75 1 80 0 80 0 80 0 80 0 80 0 80 0 80 0 80	70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 65 0.01029 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01029 55 70 0.01022 55 70 0.01022 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65 0.01209 55 65	90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848	9021 35616 23598 1510 39 43774 44314 23663 99 19444 12128 260 1909 344 161 11601 9763 138 56 24811 107 66 630 663 606	5358 -18962 400 -979 0 0 15224 -8487 15242 -8720 1800 0 -150 3000 -645 1600 -220 0 0 0 200 0 200 0 0 0 597 -8532 0 0 0 0 -701 0 0 -986 0 -701 0 0 0 0 -701 0 0 0 0 0 0 0	13 122% 142 0% 32 70% 5 0% 1 0% 5 0% 1 0% 39 0% 56 0% 1 0% 27 0% 33 0% 2 0% 11 0% 2 0% 11 0% 8 0% 2 0% 103 0% 44 0% 2 0% 2 0% 2 0% 2 0% 2 0% 2 0% 5 0% 5 0% 5 0% 6 0%	11004 -198 0 3561 16506 709 0 151 0 £7 0 4437 0 4431 0 2366 0 9 0 194 0 1212 0 22 0 190 0 32 0 166 0 97 0 115 0 2481 0 10 0 66 0 66 0 660 0 1498	166 0 0 102 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10 50 650 10	-100 150 1650 500 350 200 75 25 25 25 2050 625 2075 625 11100 350 25 25 925 300 575 175 25 25 100 50 25	275 50 300 50 25 775 775 150 25 250 150 25 25 25 25 25 25 25 25 25 25 25 25 25	1650 :: 732 :: 75 :: 25 :: 2050 :: 2075 :: 1100 :: 25 :: 925 :: 25	275 56% 300 3% 300 41% 50 67% 25 100% 275 38% 3775 38% 370 278 380 277 370 380 277 380 25 100%	60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 70 60 65 60 70 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65 60 65	70 70 90 88 65 80 80 70 71 11 65 65 65 65 65 65 65 65 65 65 65 65 65	275 500 300 50 25 775 775 350 25 300 175 25 50 25 50 25 25 25 25 25 25 25 25 25 25 25 25 25	540	81	
20 LD Janitor_B0079 202 L2 Bathroom 203 L2 CollabArea_208 204 L2 CollabArea_240 205 L2 CollabArea_274 206 L2 CollabArea_295 207 L2 ConferenceRm_201	AHU 4 AHU 5 AHU 2 AHU 2 AHU 1 AHU 1 AHU 5	Corridor Corridor Workspace Workspace Workspace Swing Conference	59 758 367 939 279 679 968	0 80 0 80 10 75 20 75 7 75 12 75	65 0.01209 55 65 0.01209 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55 70 0.01022 55	90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848 90 0.00848	50 1294 4392 9871 3191 11289	0 -107 0 0 0 1550 0 3100 0 1085 0 3323 -7796 8120 -11367	1 0% 2 0% 12 0% 11 0% 11 0% 17 79% 22 0%		50 0 94 0 92 200 71 375 91 150 99 400	25 25 50 25 225 75 475 150 150 50 125 125 1000 300	25 50 75 175 75 125 275	25 50 225 475 150 400	25 100% 50 100% 75 33% 175 37% 75 50% 125 31% 300 28%	60 65 60 65 60 70 60 70 60 70 60 70	69 65 70 70 70 90	25 50 75 175 75 125 300	135 270 810 1890 810 1350 2'	07 0 VAV 0.9 0 0 VAV 2.18 0 0 VAV 2.4 0 0 VAV 2.4 0 0 VAV 2.3 0 0 VAV 2.3 00 5096 VAV 2.41 80 4887 VAV 2.1	NO NO NO YES

208 L2 ConferenceRm_238 209 L2 Corridor_20041 21 L0-1 Lecture Hall_131_Ext 210 L2 Corridor_20050 211 L2 ElecRm_20065 212 L2 ElecRm_20068 213 L2 HubLounge_251 214 L2 HuddleCorridor 215 L2 HuddleCorridor 215 L2 HuddleRm_210 216 L2 HuddleRm_211 217 L2 HuddleRm_214 218 L2 HuddleRm_214 218 L2 HuddleRm_214 218 L2 HuddleRm_216 219 L2 HuddleRm_218 22 L0 LockerRm_B80 220 L2 HuddleRm_250 221 L2 HuddleRm_252 222 L2 HuddleRm_255 224 L2 HuddleRm_255 224 L2 HuddleRm_256 225 L2 HuddleRm_257 226 L2 HuddleRm_260 228 L2 HuddleRm_260 228 L2 HuddleRm_260 228 L2 HuddleRm_260 228 L2 HuddleRm_600 228 L2 HuddleRm_600 230 L2 HuddleRm_600 230 L2 HuddleRm_600 231 L2 HuddleRm_600 230 L2 HuddleRm_600 231 L2 HuddleRm_600 231 L2 HuddleRm_700 232 L2 HuddleRm_700 233 L2 HuddleRm_700 234 L2 HuddleRm_700 235 L2 HuddleRm_700 236 L2 HuddleRm_700 237 L2 HuddleRm_700 238 L2 HuddleRm_700 239 L2 ConferenceRm_75 24 L0 MainElecRm_80068 240 L2 HuddleRm_700 241 L2 HuddleRm_700 241 L2 HuddleRm_700 242 L2 HuddleRm_700 243 L2 HuddleRm_700 244 L2 Janitor_70069 245 L2 Library_73 244 L2 Janitor_70069 245 L2 Library_81 247 L2 WultipurposeRm_705 248 L2 OfficeZoneB_283_Ext1 251 L2 OfficeZoneB_283_Ext1 251 L2 OfficeZoneB_283_Ext1 252 L2 OfficeZoneB_283_Ext1 253 L2 OfficeZoneB_283_Ext1 254 L2 OfficeZoneB_283_Ext1 255 L2 OfficeZoneB_283_Ext1 256 L2 OfficeZoneB_283_Int1 256 L2 OfficeZoneB_283_Int1 256 L2 OfficeZoneB_283_Int1 256 L2 OfficeZoneC_215_Ext1 261 L2 OfficeZoneC_215_Ext1 262 L2 Pantry_240A 263 L2 Pantry_240A 263 L2 Pantry_240A 263 L2 Pantry_240A	AHU 5 Conference AHU 5 Corridor AHU 4 Lecture AHU 5 Corridor AHU 5 MEP AHU 5 MEP AHU 2 Lobby AHU 1 Corridor AHU 2 Huddle AHU 2 Huddle AHU 2 Huddle AHU 2 Huddle AHU 3 Huddle AHU 4 Corridor AHU 5 Huddle AHU 1 Huddle AHU 2 Workspace AHU 2 Workspace AHU 2 Workspace AHU 1 Workspace AHU 2 Workspace AHU 2 Workspace AHU 2 Workspace AHU 1 Workspace A	259 10 1310 0 862 68 1602 0 124 0 103 0 931 16 608 0 126 5 100 5 100 5 100 5 100 5 101 5 101 5 101 5 101 5 101 5 100 5 101 5 101 5 101 5 100 78 0 100 100 5 100 10	80 65 0.01209 55 80 65 0.01209 55 80 65 0.01209 55 75 70 0.01022 55 75 70	90	2 0% 0 2735 1 0% 0 149 1 0% 0 149 1 0% 0 149 9 130% 11004 -2514 2 0% 0 1050 14 0% 0 1669 17 0% 0 1669 17 0% 0 1669 17 0% 0 1669 17 0% 0 1657 13 0% 0 1826 3 0% 0 1705 16 0% 0 1665 25 106% 2751 -164 16 0% 0 1774 26 106% 2751 -164 26 106% 2751 -164 26 106% 2751 -164 17 0% 0 1668 26 <th>200 175 75 200 0 100 50 100 100 625 1500 500 575 1625 0 125 50 100 125 0 25 25 25 25 25 0 25 25 25 25 25 450 -125 150 150 488 0 50 25 50 50 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50</th> <th>75 38% 60 100 100% 60 575 35% 60 100 80% 60 25 100% 60 25 100% 60 50 100% 60 50 50% 60 50 41% 60 50 50% 60 50 41% 60 50 50% 60 50 41% 60 50 50% 60</th> <th>70</th>	200 175 75 200 0 100 50 100 100 625 1500 500 575 1625 0 125 50 100 125 0 25 25 25 25 25 0 25 25 25 25 25 450 -125 150 150 488 0 50 25 50 50 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50 50 100 100 100 50	75 38% 60 100 100% 60 575 35% 60 100 80% 60 25 100% 60 25 100% 60 50 100% 60 50 50% 60 50 41% 60 50 50% 60 50 41% 60 50 50% 60 50 41% 60 50 50% 60	70
246 L2 Library_281 247 L2 MultipurposeRm_205 248 L2 OfficeZoneA_231_Ext1 249 L2 OfficeZoneA_231_Ext2 25 L0 FirePumpRm_B0069 250 L2 OfficeZoneB_283_Ext1 251 L2 OfficeZoneB_283_Ext2 252 L2 OfficeZoneB_283_Ext2 252 L2 OfficeZoneB_283_Ext4 253 L2 OfficeZoneB_283_Ext4 254 L2 OfficeZoneB_283_Ext4 254 L2 OfficeZoneB_283_Int1 256 L2 OfficeZoneB_283_Int1 256 L2 OfficeZoneB_283_Int2 257 L2 OfficeZoneB_283_Int3 258 L2 OfficeZoneB_283_Int4 259 L2 OfficeZoneB_283_Int4 259 L2 OfficeZoneB_283_Int4 250 L2 OfficeZoneC_215_Ext1 26 L0 Seminar_B61 260 L2 OfficeZoneC_215_Ext2 261 L2 OfficeZoneC_215_Ext2 261 L2 OfficeZoneC_215_Ext3 262 L2 Pantry_240A 263 L2 QuietRm_277 264 L2 Stair#5_20003 265 L2 SwingSpace_209 266 L2 TelRm_236	AHU 1 AHU 5 Conference AHU 2 Workspace AHU 2 Workspace AHU 4 MEP AHU 1 Workspace AHU 2 Workspace AHU 3 Workspace AHU 4 Seminar AHU 2 Workspace AHU 4 Sominar AHU 2 Workspace AHU 1 Workspace AHU 1 Workspace AHU 2 Sominar AHU 2 Storage AHU 1 Workspace AHU 2 Sominar AHU 3 Sominar AHU 4 Sominar AHU 4 Sominar AHU 5 Somin	690 17 566 46 931 14 1042 14 276 0 1022 17 1067 17 1093 17 842 17 1075 25 435 8 454 8 455 8 505 6 1147 72 822 12 746 10 136 3 251 6 989 0 561 12	75 70 0.01022 55 75 70 0.01022 55	90 0.00848 7816 2635 0 90 0.00848 13976 7130 0 90 0.00848 13976 7130 0 90 0.00848 20760 3240 -11906 90 0.00848 -119 0 -942 90 0.00848 -119 0 -942 90 0.00848 21153 3316 -9439 90 0.00848 21567 3333 -9669 90 0.00848 22567 3333 -9669 90 0.00848 17576 3173 -7451 90 0.00848 22258 5010 -22154 90 0.00848 4263 1240 0 90 0.00848 4363 1240 0 90 0.00848 3857 1240 0 90 0.00848 3857 1240 0 90 0.00848 3570 1874 -5074 90 0.00848 12800 2679 -8837 90 0.00848 11736 2353 -8593 90 0.00848 6240 1531 -4913 90 0.00848 6240 1531 -4913 90 0.00848 6240 1531 -4913 90 0.00848 54276 2199 -35189 90 0.00848 54276 2199 -35189 90 0.00848 15107 2659 -7126	11 0% 0 7816 25 0% 0 13976 21 69% 13176 5980 20 63% 13176 7584 0 0% 0 -119 20 64% 13176 7268 20 62% 13176 8391 21 75% 13176 8391 21 75% 13176 4400 21 65% 14436 7822 10 104% 4428 -165 10 101% 4428 -65 10 100% 4428 -7 11 115% 4428 -571 11 109% 6226 -525 27 0% 0 30975 16 103% 13176 -376 16 112% 13176 -1440 8 0% 0 1029 25 76% 4716	325 375 125 150 375 850 650 275 275 850 300 125 150 450 400 375 125 150 450 0 -25 0 25 25 400 350 125 150 450 400 375 125 150 450 400 400 125 175 450 400 225 125 150 450 600 375 200 200 650 150 -25 50 75 150 150 -25 50 75 150 150 -25 50 75 150 150 -25 50 75 150 150 -25 50 75 150 150 -25 50 75 150 150 -25 75 75	150 40% 60 275 32% 60 150 33% 60 150 33% 60 25 100% 60 150 33% 60 150 33% 60 150 33% 60 175 39% 60 150 33% 60 200 31% 60 75 50% 60 75 50% 60 75 50% 60 75 50% 60 75 50% 60 75 25% 60 100 22% 60 50 100% 60 50 100% 60 625 4% 60 100 25% 60	70 70 150 1620 0 0 VAV 2.42 NO 70 70 275 2970 0 0 VAV 2.2 VAV 2.5 YES 70 90 150 1620 3240 8666 VAV 2.6 YES 70 90 150 1620 3240 8666 VAV 2.6 YES 65 90 25 135 675 267 VAV 0.14 YES 70 90 150 1620 3240 5805 VAV 2.19 YES 70 90 150 1620 3240 6199 VAV 2.20 YES 70 90 175 1890 3780 5889 VAV 2.36 YES 70 90 150 1620 3240 4211 VAV 2.37 YES 70 90 150 1620 3240 4211 VAV 2.37 YES 70 70 75 810 0 0 VAV 2.21 YES 70 70 75 810 0
269 L2 VestWomen_20026 27 L0 Seminar_B73 270 L2 Storage_276 272 L2-4 OpenSpace_East 273 L2-3 Multipurpose_S 28 L0 Seminar_B81 29 L0 Seminar_B81 29 L0 Seminar_B81 30 L0 Scringar_B91 3 L0 Corridor_B0041 30 L0 Storage_B32 302 L3 Bathroom 303 L3 CollabArea_308 304 L3 CollabArea_340 306 L3 CollabArea_340 306 L3 CollabArea_341 307 L3 CollabArea_381 308 L3 CollabArea_381 308 L3 CollabArea_395 309 L3 ConferenceRm_301_W 31 L0 Storage_B82 310 L3 ConferenceRm_3013 31 L3 ConferenceRm_375 312 L3 ConferenceRm_397 313 L3 ConferenceRm_397 313 L3 ConferenceRm_398 314 L3 Corridor_30050	AHU 5 AHU 4 Seminar AHU 1 Storage AHU 5 Conference AHU 5 Conference AHU 4 Seminar AHU 4 Seminar AHU 4 Seminar AHU 5 Storage AHU 5 Corridor AHU 5 Storage AHU 5 Corridor AHU 2 Workspace AHU 2 Huddle AHU 2 Workspace AHU 1 Workspace AHU 1 Huddle AHU 1 Storage AHU 1 Conference AHU 5 Corridor AHU 5 Corridor	54 0 1175 74 54 0 381 0 202 0 1175 55 1183 55 424 0 424 0 4381 2 758 0 367 10 101 5 989 20 279 7 101 5 505 12 598 25 87 2 259 10 261 10 302 9 418 9 1396 0	80 65 0.01209 55 80 65 0.01209 55 75 70 0.01022 55 75 70 0.01022 55 75 70 0.01022 55 80 65 0.01209 55 80 65 0.01209 55 80 65 0.01209 55 75 70 0.01022 55	90 0.00848 92 0 0 90 0.00848 11470 -5390 90 0.00848 1110 0 0 90 0.00848 1110 0 0 90 0.00848 25390 966 -9403 90 0.00848 25930 1318 -8911 90 0.00848 26994 8525 -5390 90 0.00848 27043 8525 -5408 90 0.00848 1297 400 -1585 90 0.00848 1294 0 0 90 0.00848 1294 0 0 90 0.00848 1294 0 0 90 0.00848 1673 775 0 90 0.00848 1673 775 0 90 0.00848 1673 775 0 90 0.00848 1673 775 0 90 0.00848 1673 775 0 90 0.00848 1673 775 0 90 0.00848 1673 4785 0 90 0.00848 3191 1085 0 90 0.00848 1675 775 0 90 0.00848 1675 775 0 90 0.00848 1675 775 0 90 0.00848 369 1550 0 90 0.00848 6742 0280 -4331 90 0.00848 3689 1550 0 90 0.00848 14837 2013 -10974 90 0.00848 11580 2226 -12238 90 0.00848 11580 2226 -12238 90 0.00848 2383 0 0	2 0% 0 110 67 0% 0 25390 19 0% 0 3930 23 0% 0 26994 23 0% 0 27043 0 0 0% 0 11297 2 0% 0 1297 2 0% 0 1294 11 0% 0 1673 10 0% 0 10136 11 0% 0 1675 16 80% 6480 1639 24 0% 0 6480 14 0% 0 3689 26 96% 6480 262 49 55% 8105 6732	0 25 25 25 25 375 1475 450 650 1475 0 25 25 25 25 25 75 950 300 25 950 175 25 200 25 25 200 1250 25 25 200 1250 25 500 1250 25 50 50 1250 25 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 225 50 100 30 100 50 100 30 100 30 100 30 100 30 100 30 100 300 100 300	25 100% 60 650 44% 60 25 100% 60 300 3% 60 75 13% 60 500 40% 60 50 100% 60 50 100% 60 50 100% 60 50 150 100% 60 50 100% 60 50 100% 60 50 100% 60 75 33% 60 175 37% 60 175 37% 60 175 30% 60 175 37% 60 175 30% 60 175 30% 60 100 33% 60 225 26% 60 100 23% 60 100 23% 60 100 23% 60 100 23% 60 100 100% 60	65 65 25 135 0 0 VAV 2.18 70 78 650 7020 5390 0 VAV 0.11 65 65 25 135 0 0 VAV 2.31 NO 65 90 300 1620 8100 1303 VAV 4.16 NO 70 90 75 810 1620 7291 VAV 3.2 VAV 0.13 70 80 500 5400 5390 0 VAV 0.15 VAV 0.15 65 90 50 270 1350 227 VAV 0.2 65 90 50 270 1350 227 VAV 0.15 65 90 50 270 1350 227 VAV 3.18 VAV 0.2 65 90 50 270 1350 227 VAV 3.18 VAV 0.2 65 65 50 270 0 0 VAV 3.18 NO VAV 3.44 NO 70 70 75 810 0

323 L3 HuddleRm_318 325 L3 HuddleRm_320 326 L3 HuddleRm_352 327 L3 HuddleRm_355 328 L3 HuddleRm_355 328 L3 HuddleRm_355 331 L0 Vestibule_B0048 330 L3 HuddleRm_357 331 L3 HuddleRm_367 331 L3 HuddleRm_360 331 L3 HuddleRm_360 331 L3 HuddleRm_361 334 L3 HuddleRm_361 335 L3 HuddleRm_362 335 L3 HuddleRm_363 336 L3 HuddleRm_364 437 L3 HuddleRm_365 338 L3 HuddleRm_366 339 L3 HuddleRm_366 339 L3 HuddleRm_366 341 L3 HuddleRm_366 341 L3 HuddleRm_370 342 L3 HuddleRm_370 342 L3 HuddleRm_371 343 L3 HuddleRm_373 344 L3 JuddleRm_373 344 L3 JuddleRm_373 344 L3 JuddleRm_373 345 L3 HuddleRm_373 346 L3 OfficeZoneA_331_Ext1 348 L3 OfficeZoneA_331_Ext1 349 L3 OfficeZoneB_383_Ext1 349 L3 OfficeZoneB_383_Ext2 35 L0 WaterServ_B0067 350 L3 OfficeZoneB_383_Ext3 351 L3 OfficeZoneB_383_Int1 353 L3 OfficeZoneB_383_Int1 353 L3 OfficeZoneB_383_Int2 354 L3 OfficeZoneB_383_Int2 354 L3 OfficeZoneB_383_Int3 355 L3 OfficeZoneB_383_Int3 355 L3 OfficeZoneB_383_Int4 366 L3 OfficeZoneB_383_Int4 367 L3 OfficeZoneB_383_Int4 368 L3 OfficeZoneB_383_Int4 368 L3 OfficeZoneB_383_Int4 369 L3 Pantry_340A 361 L3 QuietRm_377 362 L3 SwingSpace_309 363 L3 TelRm_382 365 L3 OfficeZoneC_315_Ext3 366 L3 Pantry_340A 361 L3 QuietRm_377 362 L3 SwingSpace_309 363 L3 TelRm_382 365 L3 VestMen_30028 366 L3 VestMen_90026 367 L3 Stair#5_30003 37 L0 Stair#2_B0008 360 L3 Stair#5_30003 37 L0 Stair#2_B0008 37 L0 Stair#2_B0008 38 L0-1 Lecture Hall_131_Int 4 L0 ConferenceRm_407 440 L4 CollabArea_448 440 L4 CollabArea_449 440 L4 CollabArea_449 440 L4 CollabArea_449 440 L4 CollabArea_449 440 L4 CollabArea_451 441 L4 ConferenceRm_407 441 L4 ConferenceRm_407 441 L4 ConferenceRm_407 442 L4 HuddleRm_455 443 L4 HuddleRm_456 444 L4 HuddleRm_456 445 L4 HuddleRm_456 446 L4 HuddleRm_456 447 L4 HuddleRm_456 448 L4 HuddleRm_460 449 L4 HuddleRm_460 441 L4 HuddleRm_460 441 L4 HuddleRm_460 443 L4 HuddleRm_	HU 2 Storage HU 1 Huddle HU 1 Huddle HU 2 Swing CU IT CU IT HU 5 Corridor HU 1 Storage HU 2 Corridor HU 1 Storage HU 3 Corridor HU 3 Corridor HU 4 Lecture HU 3 Corridor HU 5 Conference HU 4 Lecture HU 1 Hud 2 Workspace HU 2 Huddle HU 1 Huddle HU 1 Huddle HU 1 Huddle HU 1 Conference HU 2 Conference HU 2 Workspace HU 1 Workspace HU 1 Workspace HU 1 Conference HU 1 Huddle HU 1 Huddle HU 1 Huddle HU 1 Conference HU 5 Conference HU 5 Conference HU 1 Conference HU 5 Conference HU 1 Huddle HU 1 Huddle HU 2 Huddle HU 2 Huddle HU 2 Huddle HU 2 Huddle HU 1 Huddle	100	70	1669	1669	100	So
432 L4 HuddleRm_460 AF 433 L4 HuddleRm_461 AF 434 L4 HuddleRm_462 AF 435 L4 HuddleRm_463 AF 436 L4 HuddleRm_464 AF 437 L4 HuddleRm_465 AF 438 L4 HuddleRm_466 AF 438 L4 HuddleRm_466 AF 440 L4 HuddleRm_467 AF 441 L4 HuddleRm_470 AF 442 L4 HuddleRm_471 AF	HU 1 Huddle HU 1 Huddle HU 1 Huddle HU 1 Huddle HU 1 Huddle	146 5 75 101 5 75 100 5 75 101 5 75 100 5 75	70 0.01022 55 90 0.00848 70 0.01022 55 90 0.00848 70 0.01022 55 90 0.00848 70 0.01022 55 90 0.00848 70 0.01022 55 90 0.00848	2656 952 -1430 26 104% 2751 1907 775 -53 13 0% 0 2656 952 -1430 26 104% 2751 1756 775 -131 18 0% 0 2656 952 -1430 26 104% 2751 1756 775 -131 18 0% 0	-95 125 -25 50 50 1907 100 100 50 50 -95 125 -25 50 50 1756 100 100 50 50 -95 125 -25 50 50 1756 100 100 50 50	122 50 41% 60 70 90 100 50 50% 60 70 71 122 50 41% 60 70 90 100 50 50% 60 70 72 122 50 41% 60 70 90 100 50 50% 60 70 72	50 540 1080 350 VAV 4.25 YES 50 540 53 0 VAV 4.26 NO 50 540 1080 350 VAV 4.27 YES 50 540 131 0 VAV 4.26 NO 50 540 1080 350 VAV 4.27 YES 50 540 131 0 VAV 4.28 NO

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	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	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		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		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		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		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		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		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		0.01209	55	90		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		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		0.01209	55	90		-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		0.01209	55	90		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
Air latent heat factor
Waterside coefficient
Humidity ratio, 75°F 55% RH
Humidity ratio, 53.0DB/99% RH
Humidity ratio, 60.0DB/52.9WB
Chilled beam % load to air
LAT, reheat coils during reheat mode
Delta T, finned tube radiators HHW
Min flow, reheat coils
Min flow, finned tube radiators
CFM rounding interval 1.08 Btu/h/cfm/°F
4840 Btu/h/cfm
500 Btu/h/gpm/°F
0.01022 lbw/lbda
0.00848 lbw/lbda
0.00692 lbw/lbda
40%
70 °F
10 °F
0.3 gpm
1 gpm
25 cfm

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calculated in this sheet copied from ASHRAE 62.1 Ventilation calculations copied from "Systems" tab in this file

manually entered in this sheet

18 April 2014

225121/CGB

Psychrometric cooling calc			

CNY FAB

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			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

color key

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:

		FROM 62.1		FROM 62.1					
ITEM	SERVES	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

ARUP

225121/CGB CNY FAB

21 April 2014

Cooling	Room DB °F	Room RH % 75.0 55	Room HR lb 5% 0.010	Room i	DP SA DB °F 57.8	SA W °F 55.0	VB 53.7	SA HR 0.0085	CHW °F)				
Tag	Manufacturer	Model	Length FT	DP in wa	Primary Air cfm	Air Sensi BTU		Water Sensible BTU/h	Total Sensible BTU/h	Primary Latent BTU/h	Water	Water EWT °F	Water LWT °F	
ACB-1.1	Swegon	Pacific	1.1	in wg 4	0.5	50	1074				gpm 6 0.49		60	66
ACB-1.1 ACB-1.2	Swegon	Pacific		4	0.5	75	1611	1625					60	66
ACB-2.1	Swegon	Pacific		6	0.5	50	1074						60	66
ACB-2.2	Swegon	Pacific		6	0.4	75	1611	2196					60	66
ACB-2.3	Swegon	Pacific		6	0.4	100	2148						60	66
ACB-2.4	Swegon	Pacific		6	0.7	122	2620						60	66
ACB-3.1	Swegon	Pacific		8	0.4	75	1611	2574	4185	62	4 0.85	7	60	66
ACB-3.2	Swegon	Pacific		8	0.4	100	2148	3113	5261	83	2 1.030	5	60	66
ACB-3.3	Swegon	Pacific		8	0.4	125	2685	3240	5925	104	1 1.078	3	60	66
ACB-3.4	Swegon	Pacific		8	0.6	150	3240	3240	6480	124	9 1.078	3	60	66
Air sensible heat factor Air latent heat factor Waterside coefficien	•	1.08 Btu/h/cfm/°F 4840 Btu/h/cfm 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 Lat	Diff OA	Total SA	Secondary		y Sens Capaci Notes
			SF	BTU/h	BTU/h	BTU/h	cfm	_tag #	‡		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				751	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	3 49	75	100	29	952	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 1-	45 L1 MastersStudio_191_Ext1	VAV 1.29	798	34384	5728	-15093	325	ACB-3.4	5	-1984	516	425	750	162	200	5 47% sensible covered by 191_ext2
AHU-1 Workspaces N 1-	46 L1 MastersStudio_191_Ext2	VAV 1.37	416	19697	4431	-9481	250	ACB-3.3	6	15853	1813	500	750	194	140	6 99%
AHU-1 Workspaces N 1-	47 L1 MastersStudio_191_Ext3	VAV 1.36	780	22590	3483	-19886	225	ACB-3.2	5	3715	679	275	500	155	565	5 69%
AHU-1 Workspaces N 1-	48 L1 MastersStudio_191_Ext4	VAV 1.33	530	17085	3685	-13264	225	ACB-3.4	3	2355	61	225	450	97	720	3 57%
AHU-1 Workspaces N 1	49 L1 MastersStudio_191_Int1	VAV 1.30	1048	18158	8800	0	575	ACB-3.4	6	20722	-1308	325	900	194	140	6 107% latent covered by 191_ext1 & 2
AHU-1 Workspaces N 1	50 L1 MastersStudio_191_Int2	VAV 1.39	425	7659	4000	-1377	275	ACB-3.4	3	11781	-254	175	450	97	720	3 127% latent covered by 191_ext1 & 2
AHU-1 Workspaces N 1	51 L1 MastersStudio_191_Int3	VAV 1.39A	353	7206	4000	-1144	250	ACB-3.4	3	12234	-254	200	450	97	720	3 135% latent covered by 191_ext3
AHU-1 Workspaces N 1	52 L1 MastersStudio_191_Int4	VAV 1.32	701	9021	3400	-81	275	ACB-2.4	4	12463	663	213	488	110	004	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	165	506	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	2 ACB-2.3	1 6229)	275	400	88	390	3 79% space became Swing space, higher
AHU-2 Workspaces S	213 L2 HubLounge_251	VAV 2.16	931	8490	3698	-2482	150	ACB-2.4	4	12994	365	338	488	110	004	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	27	751	1 105%
AHU-1 Workspaces N	225 L2 HuddleRm_257	VAV 2.24	101	2587	934	-1296	50	ACB-2.4	1	2784	82	2 72	122	27	751	1 106%
AHU-1 Workspaces N	226 L2 HuddleRm_259	VAV 2.24	101	2605	911	-1447	50	ACB-2.4	1	2766	5 105	72	122	27	751	1 106%
AHU-1 Workspaces N	228 L2 HuddleRm_261	VAV 2.26	101	2587	934	-1296	50	ACB-2.4	1	2784	82	2 72	122	27	751	1 106%
AHU-1 Workspaces N	230 L2 HuddleRm_263	VAV 2.26	101	2649	911	-1830	50	ACB-2.4	1	2722	2 105	72	122	27	751	1 104%
AHU-1 Workspaces N	232 L2 HuddleRm_265	VAV 2.28	101	2613	911	-1522	50	ACB-2.4	1	2758	3 105	72	122	27	751	1 105%
AHU-1 Workspaces N	234 L2 HuddleRm_267	VAV 2.28	152	3269	1013	-1945	50	ACB-2.4	1	2102	2 3	72	122	27	751	1 84%
AHU-1 Workspaces N	237 L2 HuddleRm_271	VAV 2.30	101	2587	934	-1296	50	ACB-2.4	1	2784	82	2 72	122	27	751	1 106%
AHU-1 Workspaces N	238 L2 HuddleRm_273	VAV 2.30	101	2584	933	-1293	50	ACB-2.4	1	2787	82	2 72	122	27	751	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	64	180	2 96%
AHU-2 Workspaces S 2	248 L2 OfficeZoneA_231_Ext1	VAV 2.5	931	19156	2848	-10044	150	ACB-2.2	6	3686	898	300	450	131	76	4 69%
•	249 L2 OfficeZoneA_231_Ext2	VAV 2.6	1042	20760	3240	-11906	150	ACB-2.2	6	2082			450	131	76	4 63%
AHU-1 Workspaces N 2	250 L2 OfficeZoneB_283_Ext1	VAV 2.19	1022	20444	3288	-9045	150	ACB-2.2	6	2398	3 458	300	450	131	76	4 64%
*	251 L2 OfficeZoneB_283_Ext2	VAV 2.20	1067	21153	3316	-9439	150	ACB-2.2	6	1689						4 62%
•	252 L2 OfficeZoneB_283_Ext3	VAV 2.36	1093	21567	3333	-9669	175	ACB-2.2	6	1275						4 61%
_	253 L2 OfficeZoneB 283 Ext4	VAV 2.37	842	17576	3173	-7451	150	ACB-2.2	6	5266						4 75%
•	254 L2 OfficeZoneB_283_Ext5	VAV 2.40	1075	22258	5010	-22154	200	ACB-3.4	4 ACB-1.1	1 6212					136	5 65%
•	255 L2 OfficeZoneB_283_Int1	VAV 2.10	435	4263	1240	0	75	ACB-1.1	3	3387					128	1 104%
*	256 L2 OfficeZoneB_283_Int2	VAV 2.22	454	4363	1240	0	75	ACB-1.1	3	3287					128	1 101%

AHU-1 Workspaces N 257 L2 OfficeZoneB_283_Int3	VAV 2.38	465	4421	1240	0	75	ACB-1.1	3 3		3229	9	75 75	150	4428	1	100% 115%
AHU-1 Workspaces N 258 L2 OfficeZoneB_283_Int4 AHU-2 Workspaces S 259 L2 OfficeZoneC_215_Ext1	VAV 2.39 VAV 2.3	358 505	3857 5701	1240 1874	0 -5074	75 75	ACB-1.1 ACB-3.2	2		3793 4821	-210	75 125	150 200	4428 6226	2	109% latent covered by swing 209
AHU-2 Workspaces S 259 L2 OfficeZoneC_215_Ext1 AHU-2 Workspaces S 260 L2 OfficeZoneC_215_Ext2	VAV 2.3 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 2.12 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	l		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 72	122	2751	1	106%
AHU-1 Workspaces N 335 L3 HuddleRm_363	VAV 3.26 VAV 3.28	101	2587 2587	934 934	-1296 -1296	50 50	ACB-2.4 ACB-2.4	1 1		2784 2784	82 82	72 72	122 122	2751 2751	1	106% 106%
AHU-1 Workspaces N 337 L3 HuddleRm_365 AHU-1 Workspaces N 339 L3 HuddleRm_367	VAV 3.28 VAV 3.28	101 152	3269	1013	-1290	50	ACB-2.4 ACB-2.4	1		2102	3	72	122	2751	1	84%
AHU-1 Workspaces N 342 L3 HuddleRm_371	VAV 3.20	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 75	150	4428	1	101%
AHU-1 Workspaces N 354 L3 OfficeZoneB_383_Int3	VAV 3.37	467	4433	1240	0	75 75	ACB-1.1	3		3217	9	75 75	150	4428	1	100%
AHU-1 Workspaces N 355 L3 OfficeZoneB_383_Int4	VAV 3.38	515	4686	1240	0	75 125	ACB-1.1	3		2964	1067	75 225	150	4428	1	94%
AHU-2 Workspaces S 356 L3 OfficeZoneC_315_Ext3 AHU-2 Workspaces S 357 L3 OfficeZoneC_315_Ext4	VAV 3.12 VAV 3.13	822 940	12034 12345	2679 2534	-8837 -9619	125 125	ACB-2.2 ACB-2.2	6		10808 10497	1067 1212	325 325	450 450	13176 13176	4	109% 107%
AHU-2 Workspaces S 357 L3 OfficeZoneC_315_Ext4 AHU-2 Workspaces S 358 L3 OfficeZoneC_315_Ext2	VAV 3.13 VAV 3.3	468	7291	1508	-6233	75	ACB-2.2 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	ACD-3.2	2		#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		10.15	15742	150	ACB-3.2	,		3020	20	10)	277	3302	2	00%
AHU-2 Workspaces S 418 L4 HubLounge_451		770	27348	4245	-15743	150	11CB 3.2	6		4218	750	450	600	18678	6	68%
	VAV 4.17	747	8102	3501	-2549	125	ACB-2.4	6 4		4218 13382	750 562	450 363	600 488	18678 11004	6 4	68% 136%
AHU-1 Workspaces N 428 L4 HuddleRm_455	VAV 4.25	747 107	8102 2737	3501 962	-2549 -1510	125 50	ACB-2.4 ACB-2.4	6 4 1		4218 13382 2634	750 562 54	450 363 72	600 488 122	18678 11004 2751	6 4 1	68% 136% 101%
AHU-1 Workspaces N 430 L4 HuddleRm_457	VAV 4.25 VAV 4.25	747 107 101	8102 2737 2656	3501 962 952	-2549 -1510 -1430	125 50 50	ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1		4218 13382 2634 2715	750 562 54 64	450 363 72 72	600 488 122 122	18678 11004 2751 2751	6 4 1	68% 136% 101% 104%
AHU-1 Workspaces N 430 L4 HuddleRm_457 AHU-1 Workspaces N 431 L4 HuddleRm_459	VAV 4.25 VAV 4.25 VAV 4.25	747 107 101 101	8102 2737 2656 2656	3501 962 952 952	-2549 -1510 -1430 -1430	125 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1		4218 13382 2634 2715 2715	750 562 54 64 64	450 363 72 72 72	600 488 122 122 122	18678 11004 2751 2751 2751	6 4 1 1	68% 136% 101% 104%
AHU-1 Workspaces N 430 L4 HuddleRm_457 AHU-1 Workspaces N 431 L4 HuddleRm_459 AHU-1 Workspaces N 433 L4 HuddleRm_461	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27	747 107 101 101 101	8102 2737 2656 2656 2656	3501 962 952 952 952	-2549 -1510 -1430 -1430 -1430	125 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1		4218 13382 2634 2715 2715 2715	750 562 54 64 64 64	450 363 72 72 72 72 72	600 488 122 122 122 122	18678 11004 2751 2751 2751 2751	6 4 1 1 1	68% 136% 101% 104% 104%
AHU-1 Workspaces N 430 L4 HuddleRm_457 AHU-1 Workspaces N 431 L4 HuddleRm_459 AHU-1 Workspaces N 433 L4 HuddleRm_461 AHU-1 Workspaces N 435 L4 HuddleRm_463	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27	747 107 101 101 101 101	8102 2737 2656 2656 2656 2656	3501 962 952 952 952 952	-2549 -1510 -1430 -1430 -1430	125 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1		4218 13382 2634 2715 2715 2715 2715	750 562 54 64 64 64 64	450 363 72 72 72 72 72 72	600 488 122 122 122 122 122	18678 11004 2751 2751 2751 2751 2751	6 4 1 1 1 1	68% 136% 101% 104% 104% 104%
AHU-1 Workspaces N 430 L4 HuddleRm_457 AHU-1 Workspaces N 431 L4 HuddleRm_459 AHU-1 Workspaces N 433 L4 HuddleRm_461 AHU-1 Workspaces N 435 L4 HuddleRm_463 AHU-1 Workspaces N 437 L4 HuddleRm_465	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29	747 107 101 101 101 101 101	8102 2737 2656 2656 2656 2656 2656	3501 962 952 952 952 952 952 952	-2549 -1510 -1430 -1430 -1430 -1430 -1430	125 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1 1		4218 13382 2634 2715 2715 2715 2715 2715	750 562 54 64 64 64 64 64	450 363 72 72 72 72 72 72 72	600 488 122 122 122 122 122 122 122	18678 11004 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1	68% 136% 101% 104% 104% 104% 104%
AHU-1 Workspaces N 430 L4 HuddleRm_457 AHU-1 Workspaces N 431 L4 HuddleRm_459 AHU-1 Workspaces N 433 L4 HuddleRm_461 AHU-1 Workspaces N 435 L4 HuddleRm_463 AHU-1 Workspaces N 437 L4 HuddleRm_465 AHU-1 Workspaces N 439 L4 HuddleRm_467	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.29	747 107 101 101 101 101 101 152	8102 2737 2656 2656 2656 2656 2656 2656 3360	3501 962 952 952 952 952 952 952 978	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122	125 50 50 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1 1 1		4218 13382 2634 2715 2715 2715 2715 2715 2011	750 562 54 64 64 64 64 64 37	450 363 72 72 72 72 72 72 72 72	600 488 122 122 122 122 122 122 122	18678 11004 2751 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1 1	68% 136% 101% 104% 104% 104% 104% 104%
AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.29 VAV 4.31	747 107 101 101 101 101 101 152 101	8102 2737 2656 2656 2656 2656 2656 3360 2623	3501 962 952 952 952 952 952 952 978 952	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365	125 50 50 50 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1 1 1 1 1		4218 13382 2634 2715 2715 2715 2715 2715 2011 2748	750 562 54 64 64 64 64 64 64 64	450 363 72 72 72 72 72 72 72 72 72 72	600 488 122 122 122 122 122 122 122 122	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1 1 1	68% 136% 101% 104% 104% 104% 104% 104% 104% 105%
AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.29	747 107 101 101 101 101 101 152 101	8102 2737 2656 2656 2656 2656 2656 2656 3360	3501 962 952 952 952 952 952 952 978	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122	125 50 50 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1 1 1 1 1 1 1 1		4218 13382 2634 2715 2715 2715 2715 2715 2011	750 562 54 64 64 64 64 64 37	450 363 72 72 72 72 72 72 72 72	600 488 122 122 122 122 122 122 122	18678 11004 2751 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1 1 1 1 1 1 1 1 5	68% 136% 101% 104% 104% 104% 104% 104%
AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.29 VAV 4.31 VAV 4.31	747 107 101 101 101 101 101 152 101	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653	3501 962 952 952 952 952 952 978 952 951	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426	125 50 50 50 50 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4	6 4 1 1 1 1 1 1 1 1 1 6 6		4218 13382 2634 2715 2715 2715 2715 2715 2715 2011 2748 2718	750 562 54 64 64 64 64 64 64 64 64	450 363 72 72 72 72 72 72 72 72 72 72	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1 1 1 1 1 1 1 5 5	68% 136% 101% 104% 104% 104% 104% 104% 105% 105%
AHU-1 Workspaces N AHU-2 Workspaces S A430 L4 HuddleRm_457 433 L4 HuddleRm_463 435 L4 HuddleRm_465 439 L4 HuddleRm_471 441 L4 HuddleRm_471 AHU-1 Workspaces S A45 L4 OfficeZoneA_431_Ext2	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.29 VAV 4.31 VAV 4.31 VAV 4.6	747 107 101 101 101 101 101 152 101 101 999 894 1022	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653 26227 23483 24919	3501 962 952 952 952 952 952 978 952 951 3296	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426 -18019 -13072 -13201	125 50 50 50 50 50 50 50 50 50 50	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.3 ACB-2.3	6 4 1 1 1 1 1 1 1 1 1 6 6		4218 13382 2634 2715 2715 2715 2715 2715 2011 2748 2718 1121 3865 2429	750 562 54 64 64 64 64 64 64 1699 2147 1707	450 363 72 72 72 72 72 72 72 72 72 72 450	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751	6 4 1 1 1 1 1 1 1 1 1 1 1 5 5 5	68% 136% 101% 104% 104% 104% 104% 104% 104% 55% 62% 58%
AHU-1 Workspaces N AHU-2 Workspaces S AHU-2 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.31 VAV 4.31 VAV 4.6 VAV 4.5	747 107 101 101 101 101 101 152 101 101 999 894 1022 1067	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653 26227 23483	3501 962 952 952 952 952 952 978 952 951 3296 2848	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426 -18019 -13072	125 50 50 50 50 50 50 50 50 50 50 150	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.3 ACB-2.3 ACB-2.3			4218 13382 2634 2715 2715 2715 2715 2715 2011 2748 2718 1121 3865 2429 1526	750 562 54 64 64 64 64 64 64 1699 2147 1707 1679	450 363 72 72 72 72 72 72 72 72 72 450 475 450	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751 2751 2751 14460 14460 14460 14460	6 4 1 1 1 1 1 1 1 1 1 1 5 5 5	68% 136% 101% 104% 104% 104% 104% 104% 104% 55% 62% 58% 56%
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AHU-1 Workspaces N AHU-2 Workspaces S AHU-2 Workspaces S AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.31 VAV 4.31 VAV 4.5 VAV 4.5 VAV 4.20 VAV 4.31 VAV 4.34	747 107 101 101 101 101 101 152 101 101 999 894 1022 1067 1093 1166	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653 26227 23483 24919 25822 26350 26324	3501 962 952 952 952 952 952 952 978 952 951 3296 2848 3288 3316 3333 3379	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426 -18019 -13072 -13201 -13776 -14112 -14523	125 50 50 50 50 50 50 50 50 150 125 150 175	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3			4218 13382 2634 2715 2715 2715 2715 2715 2715 2011 2748 2718 1121 3865 2429 1526 998 1024	750 562 54 64 64 64 64 64 1699 2147 1707 1679 1662 1615	450 363 72 72 72 72 72 72 72 72 72 450 475 450 450 425 425	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751 2751 2751 14460 14460 14460 14460 14460 14460	6 4 1 1 1 1 1 1 1 1 5 5 5 5 5	68% 136% 101% 104% 104% 104% 104% 104% 104% 55% 62% 58% 56% 55%
AHU-1 Workspaces N AHU-2 Workspaces S AHU-2 Workspaces S AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.31 VAV 4.31 VAV 4.5 VAV 4.5 VAV 4.20 VAV 4.21 VAV 4.37 VAV 4.38 VAV 4.22	747 107 101 101 101 101 101 152 101 101 999 894 1022 1067 1093 1166 435	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653 26227 23483 24919 25822 26350 26324 4645	3501 962 952 952 952 952 952 952 978 952 951 3296 2848 3288 3316 3333 3379 1240	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426 -18019 -13072 -13201 -13776 -14112 -14523 -572	125 50 50 50 50 50 50 50 50 50 150 1	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3	6 6 6 6 3		4218 13382 2634 2715 2715 2715 2715 2715 2715 2711 2748 2718 1121 3865 2429 1526 998 1024 3005	750 562 54 64 64 64 64 64 1699 2147 1707 1679 1662 1615 9	450 363 72 72 72 72 72 72 72 72 72 450 475 450 450 425 425 75	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751 2751 2751 14460 14460 14460 14460 14460 14460 14460 4428	6 4 1 1 1 1 1 1 1 1 5 5 5 5 5 5	68% 136% 101% 104% 104% 104% 104% 104% 104% 55% 62% 58% 56% 55% 55% 95%
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AHU-1 Workspaces N AHU-2 Workspaces S AHU-2 Workspaces S AHU-1 Workspaces N AHU-1 Workspa	VAV 4.25 VAV 4.25 VAV 4.25 VAV 4.27 VAV 4.27 VAV 4.29 VAV 4.31 VAV 4.31 VAV 4.6 VAV 4.5 VAV 4.20 VAV 4.21 VAV 4.37 VAV 4.38 VAV 4.22 VAV 4.23 VAV 4.23 VAV 4.23	747 107 101 101 101 101 101 152 101 101 999 894 1022 1067 1093 1166 435 454	8102 2737 2656 2656 2656 2656 2656 3360 2623 2653 26227 23483 24919 25822 26350 26324 4645 4762 4830	3501 962 952 952 952 952 952 952 978 952 951 3296 2848 3288 3316 3333 3379 1240 1240 1240	-2549 -1510 -1430 -1430 -1430 -1430 -1430 -2122 -1365 -1426 -18019 -13072 -13201 -13776 -14112 -14523 -572 -597 -611	125 50 50 50 50 50 50 50 50 150 1	ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.4 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.3 ACB-2.1 ACB-2.1 ACB-2.1 ACB-2.1	6 6 6 6 3		4218 13382 2634 2715 2715 2715 2715 2715 2715 2011 2748 2718 1121 3865 2429 1526 998 1024 3005 2888 2820	750 562 54 64 64 64 64 64 1699 2147 1707 1679 1662 1615 9	450 363 72 72 72 72 72 72 72 72 72 450 475 450 450 425 75 75	600 488 122 122 122 122 122 122 122 1	18678 11004 2751 2751 2751 2751 2751 2751 2751 2751 2751 2751 14460 14460 14460 14460 14460 14460 14460 4428 4428	6 4 1 1 1 1 1 1 1 5 5 5 5 5 5 5 1 1	68% 136% 101% 104% 104% 104% 104% 104% 104% 55% 62% 58% 56% 55% 55% 95% 93% 92%
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