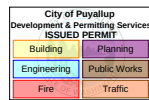
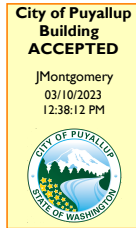


PRCTI20230098



SHBTC Core & Shell Proposed Bldg C



Location
Building owner
Program user
Company
Comments

Puyallup
Benaroya
NPatwardhan
MMFS

By
Dataset name

MacDonald-Miller Facility Solutions
C:\Users\rypdahlm\Desktop\Central Peirce F&R
Loads\SH_BLDG C-2022-12-28.TRC

Calculation time
TRACE® 700 version

08:56 AM on 01/26/2023
6.3.5

Location
Latitude
Longitude
Time Zone
Elevation
Barometric pressure

Tacoma, Washington
47.0 deg
122.0 deg
8
350 ft
29.5 in. Hg

Air density
Air specific heat
Density-specific heat product
Latent heat factor
Enthalpy factor

0.0750 lb/cu ft
0.2444 Btu/lb·°F
1.1003 Btu/h·cfm·°F
4,843.6 Btu·min/h·cu ft
4.5015 lb·min/hr·cu ft

Summer design dry bulb
Summer design wet bulb
Winter design dry bulb
Summer clearness number
Winter clearness number
Summer ground reflectance
Winter ground reflectance
Carbon Dioxide Level

86.0 °F
67.0 °F
19.0 °F
1.05
0.95
0.20
0.20
400 ppm

Design simulation period
Cooling load methodology
Heating load methodology

January - December
CLTD-CLF (ASHRAE TFM)
UATD



System Checksums

By MacDonald-Miller Facility Solutions

VAV AHU - 1st Floor

Parallel Fan Powered VAV, Htg Coil on Mixing Box Outlet

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 15		Mo/Hr: 7 / 18		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 84 / 68 / 77		OADB: 82		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	91.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.6	67.6
Glass Solar	32,127	0	32,127	7	41,831	Glass Solar	0	0.00	0	0	0.00	Ret/OA	77.0	44.3
Glass/Door Cond	4,626	0	4,626	1	4,350	Glass/Door Cond	-29,899	7.23	-29,899	-29,899	7.23	Fn MtrTD	0.0	0.0
Wall Cond	15,044	4,829	19,873	4	17,333	Wall Cond	-25,694	8.22	-33,993	-33,993	8.22	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	Floor	-7,386	1.79	-7,386	-7,386	1.79			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	Infiltration	-129,500	31.32	-129,500	-129,500	31.32			
Sub Total ==>	51,797	4,829	56,626	12	63,514	Sub Total ==>	-192,480	48.56	-192,480	-200,779	48.56			
Internal Loads				Internal Loads				Internal Loads						
Lights	36,552	9,138	45,691	10	36,552	Lights	0	0.00	0	0	0.00			
People	142,650	0	142,650	30	76,930	People	0	0.00	0	0	0.00			
Misc	169,701	0	169,701	36	169,701	Misc	0	0.00	0	0	0.00			
Sub Total ==>	348,904	9,138	358,042	76	283,184	Sub Total ==>	0	0.00	0	0	0.00			
Ceiling Load	3,358	-3,358	0	0	3,461	Ceiling Load	-2,204	0	0	0	0.00			
Ventilation Load	0	0	50,940	11	0	Ventilation Load	0	32.07	-132,616	-132,616	32.07			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-81,947	19.82	-81,947	-81,947	19.82			
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	2,223	-0.54	2,223	2,223	-0.54			
Exhaust Heat	-1,721	-1,721	0	0	0	OA Preheat Diff.	-369	0.09	-369	-369	0.09			
Sup. Fan Heat	4,555	4,555	1	1	1	RA Preheat Diff.	0	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	Supply Air Leakage	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	Grand Total ==>	-276,630	100.00	-413,487	-413,487	100.00			
Grand Total ==>	404,059	8,889	468,443	100.00	350,158	Grand Total ==>	-276,630	100.00	-413,487	-413,487	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	39.0	468.4	377.0	15,374	77.0	62.9	64.3	54.7	52.4	55.7	Floor	16,734	Main Htg	-354.2	10,926	61.6	91.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	Preheat	-97.1	2,469	19.0	54.7
Total	39.0	468.4									ExFlr	279	Reheat	-74.9	5,132	54.7	68.0
											Roof	0	Humidif	0.0	0	0.0	0.0
											Wall	8,373	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	Total	-451.3			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 001

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 18					Mo/Hr: 6 / 18			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 81 / 65 / 68					OADB: 81			OADB: 19				SADB			55.0	91.9
												Ra Plenum			75.7	67.6
												Return			75.7	67.6
												Ret/OA			76.3	48.4
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	1,009	676
Terminal	1,009	676
Main Fan	1,009	304
Sec Fan	0	372
Nom Vent	120	120
AHU Vent	120	120
Infil	0	156
MinStop/Rh	304	304
Return	1,009	460
Exhaust	120	276
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	11.9	12.3
cfm/ft²	0.86	0.58
cfm/ton	450.72	
ft²/ton	522.94	
Btu/hr-ft²	22.95	-23.15
No. People	10	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	2.2	26.9	24.4	1,009	76.3	62.3	62.6	54.7	53.1	58.3	Floor	1,171			Main Htg	-22.4	676	61.8	91.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-4.7	120	19.0	54.7
											ExFlr	0			Reheat	-4.4	304	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	1,323	78	6	Opt Vent	0.0	0	0.0	0.0
Total	2.2	26.9									Ext Door	0	0	0	Total	-27.1			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 002

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 17		Mo/Hr: 6 / 18		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 83 / 66 / 71		OADB: 81		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.7	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.7	67.6
Glass Solar	4,843	0	4,843	20	5,288	Glass Solar	0	0.00	0	0	0.00	Ret/OA	76.5	47.8
Glass/Door Cond	216	0	216	1	178	Glass/Door Cond	-1,505	7.82	-1,505	-1,505	7.82	Fn MtrTD	0.0	0.0
Wall Cond	2,037	567	2,604	11	2,124	Wall Cond	-2,911	19.38	-2,911	-3,730	19.38	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	Floor	0	0.00	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	Infiltration	-4,817	25.03	-4,817	-4,817	25.03			
Sub Total ==>	7,097	567	7,664	31	7,591	Sub Total ==>	-9,232	52.22	-9,232	-10,051	52.22			
Internal Loads				Internal Loads				Internal Loads						
Lights	1,463	366	1,829	7	1,463	Lights	0	0.00	0	0	0.00			
People	6,300	0	6,300	25	3,500	People	0	0.00	0	0	0.00			
Misc	7,167	0	7,167	29	7,167	Misc	0	0.00	0	0	0.00			
Sub Total ==>	14,931	366	15,297	62	12,131	Sub Total ==>	0	0.00	0	0	0.00			
Ceiling Load	139	-139	0	0	139	Ceiling Load	-88	0.00	-88	0	0.00			
Ventilation Load	0	0	1,602	6	0	Ventilation Load	0	30.87	0	-5,942	30.87			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-3,787	19.68	-3,787	-3,787	19.68			
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	91	-0.47	91	91	-0.47			
Exhaust Heat	-80	-80	0	0	0	OA Preheat Diff.	0	0.00	0	0	0.00			
Sup. Fan Heat	261	261	1	1	1	RA Preheat Diff.	0	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	442	-2.30	442	442	-2.30			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	0	0	0.00			
Grand Total ==>	22,167	714	24,743	100.00	19,860	Grand Total ==>	-13,108	100.00	-13,108	-19,247	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg				
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft² (%)	MBh	MBh	cfm	°F	°F				
Main Clg	2.1	24.7	21.3	880	76.5	62.4	63.0	54.7	52.7	57.0	Floor	670	-17.2	541	61.2	90.0	Main Htg	-17.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0	Aux Htg	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	-4.3	110	19.0	54.7	Preheat	-4.3
											ExFlr	0	-4.0	271	54.7	68.0	Reheat	-4.0
											Roof	0	0.0	0	0.0	0.0	Humidif	0.0
											Wall	826	0.0	0	0.0	0.0	Opt Vent	0.0
											Ext Door	0	0	0	0	0.0	Total	-21.5
Total	2.1	24.7																

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 003

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 18			Mo/Hr: 6 / 18		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 81 / 65 / 68			OADB: 81		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	94.5	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.7	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.7	67.6	
Glass Solar	8,216	0	8,216	42	8,216	51	Glass Solar	0	0	0.00	Ret/OA	76.2	50.1	
Glass/Door Cond	277	0	277	1	277	2	Glass/Door Cond	-2,338	-2,338	9.46	Fn MtrTD	0.0	0.0	
Wall Cond	1,377	560	1,937	10	1,377	9	Wall Cond	-951	-1,337	5.41	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	-1,359	-1,359	5.50				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-14,536	-14,536	58.80				
Sub Total ==>	9,870	560	10,430	54	9,870	61	Sub Total ==>	-19,183	-19,570	79.17				
Internal Loads					Internal Loads					Internal Loads				
Lights	1,621	405	2,026	10	1,621	10	Lights	0	0	0.00				
People	3,150	0	3,150	16	1,750	11	People	0	0	0.00				
Misc	2,799	0	2,799	14	2,799	17	Misc	0	0	0.00				
Sub Total ==>	7,569	405	7,975	41	6,169	38	Sub Total ==>	0	0	0.00				
Ceiling Load	153	-153	0	0	153	1	Ceiling Load	-98	0	0.00				
Ventilation Load	0	0	842	4	0	0	Ventilation Load	0	-4,287	17.34				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-871	-871	3.52				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		160	-0.65				
Exhaust Heat		-57	-57	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			218	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-150	0.61				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	17,593	754	19,407	100.00	16,193	100.00	Grand Total ==>	-20,152	-24,719	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	736	691
Terminal	736	691
Main Fan	736	221
Sec Fan	0	470
Nom Vent	80	80
AHU Vent	80	80
Infil	0	270
MinStop/Rh	221	221
Return	736	490
Exhaust	80	349
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.8	8.7
cfm/ft²	0.99	0.93
cfm/ton	454.97	
ft²/ton	458.80	
Btu/hr-ft²	26.16	-36.01
No. People	7	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total			Glass	Capacity		Coil Airflow	Ent	Lvg			
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	(%)	ft²	MBh	MBh	cfm	°F	°F			
Main Clg	1.6	19.4	17.7	736	76.2	62.2	62.5	54.7	53.1	58.5	Floor	-23.6	691	63.5	94.5	Main Htg	-23.6	691
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0.0	0	0.0	0.0	Aux Htg	0.0	0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	-3.1	80	19.0	54.7	Preheat	-3.1	80
Total	1.6	19.4									ExFlr	-3.2	221	54.7	68.0	Reheat	-3.2	221
											Roof	0.0	0	0.0	0.0	Humidif	0.0	0
											Wall	0.0	0	0.0	0.0	Opt Vent	0.0	0
											Ext Door	-26.7				Total	-26.7	

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 004

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 6 / 19		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 78		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Cooling	Heating	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads									
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	91.1	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6	67.6	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	77.0	41.9	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0	0.0	
Wall Cond	354	86	440	1	419	1	Wall Cond	-928	-1,158	3.06	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	-2,344	-2,344	6.20				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-12,875	-12,875	34.04				
Sub Total ==>	354	86	440	1	419	1	Sub Total ==>	-16,147	-16,377	43.29				
Internal Loads					Internal Loads									
Lights	3,912	978	4,890	9	3,912	12	Lights	0	0	0.00	AIRFLOWS			
People	23,400	0	23,400	45	10,680	32	People	0	0	0.00	Cooling	Heating		
Misc	17,638	0	17,638	34	17,638	53	Misc	0	0	0.00	Diffuser	1,500	958	
Sub Total ==>	44,951	978	45,929	88	32,231	98	Sub Total ==>	0	0	0.00	Terminal	1,500	958	
Ceiling Load	343	-343	0	0	359	1	Ceiling Load	-236	0	0.00	Main Fan	1,500	450	
Ventilation Load	0	0	5,327	10	0	0	Ventilation Load	0	-12,837	33.93	Sec Fan	0	508	
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	247	238	
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-7,911	-7,911	20.91	AHU Vent	247	238	
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		218	-0.58	Infil	0	239	
Exhaust Heat		-165	-165	0			OA Preheat Diff.		-369	0.97	MinStop/Rh	450	450	
Sup. Fan Heat			443	1			RA Preheat Diff.		0	0.00	Return	1,500	689	
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00	Exhaust	247	477	
Duct Heat Pkup		0	0	0			System Plenum Heat		-553	1.46	Rm Exh	0	0	
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00	Auxiliary	0	0	
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00	Leakage Dwn	0	0	
Grand Total ==>	45,648	556	51,974	100.00	33,008	100.00	Grand Total ==>	-24,294	-37,829	100.00	Leakage Ups	0	0	

ENGINEERING CKS		
% OA	Cooling	Heating
cfm/ft²	0.84	0.53
ft³/ton	413.51	
Btu/hr-ft²	29.02	-22.80
No. People	28	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
ton MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F	
Main Clg	4.3	52.0	36.3	1,496	77.0	62.9	64.7	54.7	50.9	49.9	Floor	1,791		Main Htg	-31.1	958	61.5	91.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-9.7	247	19.0	54.7
											ExFlr	89		Reheat	-6.6	450	54.7	68.0
Total	4.3	52.0									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	232	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-40.8			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 005

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 19			Mo/Hr: 6 / 19		Mo/Hr: Heating Design					Cooling		Heating
Outside Air:		OADB/WB/HR: 78 / 63 / 65			OADB: 78		OADB: 19					SADB	55.0	90.0
												Ra Plenum	75.6	67.6
												Return	75.6	67.6
												Ret/OA	75.9	52.0
												Fn MtrTD	0.0	0.0
												Fn BldTD	0.1	0.0
												Fn Frict	0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	846	508
Terminal	846	508
Main Fan	846	254
Sec Fan	0	254
Nom Vent	82	82
AHU Vent	82	82
Infil	0	48
MinStop/Rh	254	254
Return	846	302
Exhaust	82	130
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.6	10.7
cfm/ft²	2.35	1.41
cfm/ton	450.00	
ft²/ton	191.46	
Btu/hr-ft²	62.68	-53.67
No. People	12	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F		
Main Clg	1.9	22.6	20.0	846	75.9	62.0	62.1	54.7	52.8	57.3	Floor	360			Main Htg	-16.1	508	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-3.2	82	19.0	54.7	
											ExFlr	0			Reheat	-3.7	254	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	792	244	31	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	0	Total	-19.3				
Total	1.9	22.6																		

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 006

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 18			Mo/Hr: 7 / 19		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 80 / 63 / 61			OADB: 79		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	90.0	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6	67.6	
Glass Solar	3,086	0	3,086	36	3,196	44	Glass Solar	0	0	0.00	Ret/OA	76.0	53.4	
Glass/Door Cond	194	0	194	2	211	3	Glass/Door Cond	-1,949	-1,949	30.46	Fn MtrTD	0.0	0.0	
Wall Cond	1,061	428	1,489	18	983	14	Wall Cond	-804	-1,129	17.65	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	0	0	0.00				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-1,653	-1,653	25.85				
Sub Total ==>	4,340	428	4,769	56	4,390	61	Sub Total ==>	-4,406	-4,731	73.95				
Internal Loads					Internal Loads					Internal Loads				
Lights	502	126	628	7	502	7	Lights	0	0	0.00				
People	1,350	0	1,350	16	750	10	People	0	0	0.00				
Misc	1,536	0	1,536	18	1,536	21	Misc	0	0	0.00				
Sub Total ==>	3,388	126	3,514	41	2,788	39	Sub Total ==>	0	0	0.00				
Ceiling Load	45	-45	0	0	46	1	Ceiling Load	-30	0	0.00				
Ventilation Load	0	0	140	2	0	0	Ventilation Load	0	-1,553	24.27				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-331	-331	5.18				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		27	-0.43				
Exhaust Heat		-19	-19	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			97	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		191	-2.98				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	7,773	490	8,499	100.00	7,224	100.00	Grand Total ==>	-4,768	-6,398	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	328	197
Terminal	328	197
Main Fan	328	98
Sec Fan	0	98
Nom Vent	29	29
AHU Vent	29	29
Infil	0	31
MinStop/Rh	98	98
Return	328	129
Exhaust	29	59
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	8.8	9.7
cfm/ft²	1.43	0.86
cfm/ton	463.48	
ft²/ton	324.74	
Btu/hr-ft²	36.95	-32.10
No. People	3	

AIRFLOWS		
	Cooling	Heating
Diffuser	328	197
Terminal	328	197
Main Fan	328	98
Sec Fan	0	98
Nom Vent	29	29
AHU Vent	29	29
Infil	0	31
MinStop/Rh	98	98
Return	328	129
Exhaust	29	59
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	8.8	9.7
cfm/ft²	1.43	0.86
cfm/ton	463.48	
ft²/ton	324.74	
Btu/hr-ft²	36.95	-32.10
No. People	3	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR					Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	cfm	°F	°F	°F	°F	gr/lb	°F	°F		ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.7	8.5	7.9	326	76.0	62.0	61.8	54.7	53.0	57.9	Floor	230	Main Htg	-6.3	197	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	Preheat	-1.1	29	19.0	54.7
											ExFlr	0	Reheat	-1.4	98	54.7	68.0
											Roof	0	Humidif	0.0	0	0.0	0.0
											Wall	328	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	Total	-7.4			
Total	0.7	8.5															

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 007

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 8 / 18					Mo/Hr: 7 / 19			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 80 / 63 / 61					OADB: 79			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	4,363	0	4,363	32	4,519	42	42	Glass Solar	0	0	0.00	Ret/OA	76.2
Glass/Door Cond	274	0	274	2	298	3	3	Glass/Door Cond	-2,755	-2,755	25.27	Fn MtrTD	0.0
Wall Cond	1,543	616	2,160	16	1,431	13	13	Wall Cond	-1,170	-1,638	15.03	Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0.00		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		
Infiltration	0	0	0	0	0	0	0	Infiltration	-2,372	-2,372	21.76		
Sub Total ==>	6,180	616	6,796	49	6,247	59	59	Sub Total ==>	-6,297	-6,765	62.06		
Internal Loads					Internal Loads			Internal Loads					
Lights	721	180	901	7	721	7	7	Lights	0	0	0.00	AIRFLOWS	
People	4,500	0	4,500	33	2,500	23	23	People	0	0	0.00	Cooling	Heating
Misc	1,126	0	1,126	8	1,126	11	11	Misc	0	0	0.00	Diffuser	484
Sub Total ==>	6,347	180	6,527	47	4,347	41	41	Sub Total ==>	0	0	0.00	Terminal	484
Ceiling Load	64	-64	0	0	66	1	1	Ceiling Load	-43	0	0.00	Main Fan	484
Ventilation Load	0	0	338	2	0	0	0	Ventilation Load	0	-3,763	34.53	Sec Fan	0
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	70
Dehumid. Ov Sizing	0	0	0	0	0	0	0	Ov/Undr Sizing	-695	-695	6.37	AHU Vent	70
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	52	-0.48		Infil	0
Exhaust Heat	-47	-47	0	0	0	0	0	OA Preheat Diff.	0	0.00		MinStop/Rh	145
Sup. Fan Heat	143	143	0	0	0	0	0	RA Preheat Diff.	0	0.00		Return	484
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00		Exhaust	70
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	271	-2.49		Rm Exh	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00		Auxiliary	0
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00		Leakage Dwn	0
Grand Total ==>	12,591	685	13,757	100.00	10,660	100.00	100.00	Grand Total ==>	-7,035	-10,900	100.00	Leakage Ups	0

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	1.2	13.8	11.8	481	76.2	62.1	61.8	54.7	52.1	54.6	Floor	330			Main Htg	-9.2	291	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-2.7	70	19.0	54.7
											ExFlr	0			Reheat	-2.1	145	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	472	144	30	Opt Vent	0.0	0	0.0	0.0
Total	1.2	13.8									Ext Door	0	0	0	Total	-12.0			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 008

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 15					Mo/Hr: 6 / 18			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 77					OADB: 81			OADB: 19				SADB			55.0	91.6
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.2	38.8
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F	
Main Clg	2.4	29.0	23.8	959	77.2	63.0	64.6	54.7	52.6	56.6	Floor	1,480		Main Htg	-21.2	645	61.7	91.6	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-6.8	174	19.0	54.7	
											ExFlr	12		Reheat	-4.3	293	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	424	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-28.0			
Total	2.4	29.0																	

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 009

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 6 / 19		Mo/Hr: Heating Design				Cooling		Heating	
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 78		OADB: 19				SADB		93.1	
											Ra Plenum		67.6	
											Return		67.6	
											Ret/OA		42.5	
											Fn MtrTD		0.0	
											Fn BldTD		0.0	
											Fn Frict		0.0	

AIRFLOWS		
	Cooling	Heating
Diffuser	968	611
Terminal	968	611
Main Fan	968	290
Sec Fan	0	320
Nom Vent	150	150
AHU Vent	150	150
Infil	0	133
MinStop/Rh	290	290
Return	968	424
Exhaust	150	283
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	15.5	16.6
cfm/ft²	0.97	0.61
cfm/ton	410.34	
ft²/ton	423.81	
Btu/hr-ft²	28.31	-27.16
No. People	18	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR					Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
ton MBh	MBh	cfm	°F	°F	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	2.4	28.3	22.9	932	76.9	62.9	64.6	54.7	52.5	56.0	Floor	1,000	Main Htg	-21.3	611	61.5	93.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	Preheat	-5.9	150	19.0	54.7
											ExFlr	0	Reheat	-4.2	290	54.7	68.0
											Roof	0	Humidif	0.0	0	0.0	0.0
											Wall	1,226	Opt Vent	0.0	0	0.0	0.0
Total	2.4	28.3									Ext Door	0	Total	-27.2			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 010

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Cooling	Heating	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	90.7	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6	67.6	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	77.2	36.6	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0	0.0	
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	-921	-921	2.36				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-14,910	-14,910	38.22				
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-15,831	-15,831	40.58				
Internal Loads					Internal Loads					Internal Loads				
Lights	4,530	1,133	5,663	12	4,530	14	Lights	0	0	0.00				
People	14,400	0	14,400	31	8,000	24	People	0	0	0.00				
Misc	19,698	0	19,698	43	19,698	60	Misc	0	0	0.00				
Sub Total ==>	38,628	1,133	39,761	86	32,228	99	Sub Total ==>	0	0	0.00				
Ceiling Load	397	-397	0	0	435	1	Ceiling Load	-273	0	0.00				
Ventilation Load	0	0	6,123	13	0	0	Ventilation Load	0	-15,336	39.31				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-7,275	-7,275	18.65				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		257	-0.66				
Exhaust Heat		-189	-189	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			439	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-828	2.12				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	39,026	546	46,134	100.00	32,663	100.00	Grand Total ==>	-23,378	-39,013	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	1,484	937
Terminal	1,484	937
Main Fan	1,484	445
Sec Fan	0	492
Nom Vent	284	284
AHU Vent	284	284
Infil	0	277
MinStop/Rh	445	445
Return	1,484	722
Exhaust	284	561
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.2	20.6
cfm/ft²	0.72	0.45
cfm/ton	386.07	
ft²/ton	539.47	
Btu/hr-ft²	22.24	-19.91
No. People	32	

AIRFLOWS		
	Cooling	Heating
Diffuser	1,484	937
Terminal	1,484	937
Main Fan	1,484	445
Sec Fan	0	492
Nom Vent	284	284
AHU Vent	284	284
Infil	0	277
MinStop/Rh	445	445
Return	1,484	722
Exhaust	284	561
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.2	20.6
cfm/ft²	0.72	0.45
cfm/ton	386.07	
ft²/ton	539.47	
Btu/hr-ft²	22.24	-19.91
No. People	32	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg				
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft² (%)	MBh	cfm	°F	°F					
Main Clg	3.8	46.1	36.4	1,483	77.2	63.1	65.2	54.7	52.4	55.9	Floor	2,074	-30.1	937	61.5	90.7		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	-11.2	284	19.0	54.7		
											ExFlr	35	-6.5	445	54.7	68.0		
											Roof	0	0	0	0.0	0.0		
											Wall	0	0	0	0.0	0.0		
											Ext Door	0	0	0	0.0	0.0		
Total	3.8	46.1									Total	-41.3						

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 011

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	77.1	37.6
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-4,601	-4,601	26.88			
Sub Total ==>	0	0	0	0	0	0	0	-4,601	-4,601	26.88			
Internal Loads					Internal Loads								
Lights	1,398	349	1,747	8	1,398	9	0	0	0	0.00			
People	8,100	0	8,100	37	4,500	30	0	0	0	0.00			
Misc	9,215	0	9,215	42	9,215	60	0	0	0	0.00			
Sub Total ==>	18,713	349	19,063	87	15,113	99	0	0	0	0.00			
Ceiling Load	123	-123	0	0	134	1	Ceiling Load	-84	0	0.00			
Ventilation Load	0	0	2,764	13	0	0	Ventilation Load	0	-6,923	40.44			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-5,378	-5,378	31.42			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	98	-0.57	0.00			
Exhaust Heat	0	-85	-85	0	0	0	OA Preheat Diff.	0	0	0.00			
Sup. Fan Heat	0	205	205	1	0	0	RA Preheat Diff.	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	-313	1.83	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00			
Grand Total ==>	18,836	141	21,946	100.00	15,247	100.00	Grand Total ==>	-10,063	-17,117	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	693	416
Terminal	693	416
Main Fan	693	208
Sec Fan	0	208
Nom Vent	128	128
AHU Vent	128	128
Infil	0	85
MinStop/Rh	208	208
Return	693	293
Exhaust	128	214
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.5	20.6
cfm/ft²	1.08	0.65
cfm/ton	378.84	
ft²/ton	349.94	
Btu/hr-ft²	34.29	-28.50
No. People	18	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.8	22.0	16.8	692	77.1	63.1	65.0	54.7	52.2	54.9	Floor	640		Main Htg	-13.2	416	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-5.1	128	19.0	54.7
											ExFlr	0		Reheat	-3.0	208	54.7	68.0
Total	1.8	22.0									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-18.2			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 012

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Cooling	Heating	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	91.2	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6	67.6	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	77.2	37.0	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0	0.0	
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	-1,228	-1,228	4.63				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-9,439	-9,439	35.59				
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-10,667	-10,667	40.21				
Internal Loads					Internal Loads					Internal Loads				
Lights	2,868	717	3,585	12	2,868	13	Lights	0	0	0.00				
People	9,450	0	9,450	31	5,250	25	People	0	0	0.00				
Misc	13,019	0	13,019	43	13,019	61	Misc	0	0	0.00				
Sub Total ==>	25,337	717	26,054	86	21,137	99	Sub Total ==>	0	0	0.00				
Ceiling Load	252	-252	0	0	275	1	Ceiling Load	-173	0	0.00				
Ventilation Load	0	0	3,956	13	0	0	Ventilation Load	0	-9,909	37.36				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-5,566	-5,566	20.98				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		164	-0.62				
Exhaust Heat		-122	-122	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			288	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-547	2.06				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	25,589	343	30,176	100.00	21,412	100.00	Grand Total ==>	-16,406	-26,525	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	973	644
Terminal	973	644
Main Fan	973	292
Sec Fan	0	352
Nom Vent	184	184
AHU Vent	184	184
Infil	0	175
MinStop/Rh	292	292
Return	973	467
Exhaust	184	359
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.9	19.6
cfm/ft²	0.74	0.49
cfm/ton	386.93	
ft²/ton	522.14	
Btu/hr-ft²	22.98	-21.37
No. People	21	

AIRFLOWS		
	Cooling	Heating
Diffuser	973	644
Terminal	973	644
Main Fan	973	292
Sec Fan	0	352
Nom Vent	184	184
AHU Vent	184	184
Infil	0	175
MinStop/Rh	292	292
Return	973	467
Exhaust	184	359
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.9	19.6
cfm/ft²	0.74	0.49
cfm/ton	386.93	
ft²/ton	522.14	
Btu/hr-ft²	22.98	-21.37
No. People	21	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F	
Main Clg	2.5	30.2	23.8	972	77.2	63.1	65.1	54.7	52.5	55.9	Floor	1,313		Main Htg	-20.8	644	61.8	91.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-7.2	184	19.0	54.7
											ExFlr	46		Reheat	-4.3	292	54.7	68.0
Total	2.5	30.2									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-28.1			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 013

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Skylite Solar			
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Skylite Cond			
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Roof Cond			
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Glass Solar			
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Glass/Door Cond			
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Wall Cond			
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Partition/Door			
Floor	0		0	0	0.00	0	Floor	0	0	0.00	Floor			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	Adjacent Floor			
Infiltration	0		0	0	0	0	Infiltration	-4,170	-4,170	34.32	Infiltration			
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-4,170	-4,170	34.32	Sub Total ==>			
Internal Loads					Internal Loads					Internal Loads				
Lights	1,267	317	1,584	10	1,267	12	Lights	0	0	0.00	Lights			
People	5,400	0	5,400	35	3,000	28	People	0	0	0.00	People			
Misc	6,143	0	6,143	40	6,143	58	Misc	0	0	0.00	Misc			
Sub Total ==>	12,810	317	13,127	86	10,410	99	Sub Total ==>	0	0	0.00	Sub Total ==>			
Ceiling Load	111	-111	0	0	122	1	Ceiling Load	-76	0	0.00	Ceiling Load			
Ventilation Load	0	0	2,041	13	0	0	Ventilation Load	0	-5,111	42.07	Ventilation Load			
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0	Adj Air Trans Heat			
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-2,705	-2,705	22.26	Ov/Undr Sizing			
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		79	-0.65	Exhaust Heat			
Exhaust Heat		-63	-63	0			OA Preheat Diff.		0	0.00	OA Preheat Diff.			
Sup. Fan Heat			142	1			RA Preheat Diff.		0	0.00	RA Preheat Diff.			
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00	Additional Reheat			
Duct Heat Pkup		0	0	0			System Plenum Heat		-243	2.00	System Plenum Heat			
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00	Underflr Sup Ht Pkup			
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00	Supply Air Leakage			
Grand Total ==>	12,921	142	15,246	100.00	10,532	100.00	Grand Total ==>	-6,951	-12,150	100.00	Grand Total ==>			

AIRFLOWS		
	Cooling	Heating
Diffuser	479	287
Terminal	479	287
Main Fan	479	144
Sec Fan	0	144
Nom Vent	95	95
AHU Vent	95	95
Infil	0	77
MinStop/Rh	144	144
Return	479	221
Exhaust	95	172
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.8	22.0
cfm/ft²	0.83	0.50
cfm/ton	376.68	
ft²/ton	456.50	
Btu/hr-ft²	26.29	-22.14
No. People	12	

AIRFLOWS		
	Cooling	Heating
Diffuser	479	287
Terminal	479	287
Main Fan	479	144
Sec Fan	0	144
Nom Vent	95	95
AHU Vent	95	95
Infil	0	77
MinStop/Rh	144	144
Return	479	221
Exhaust	95	172
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.8	22.0
cfm/ft²	0.83	0.50
cfm/ton	376.68	
ft²/ton	456.50	
Btu/hr-ft²	26.29	-22.14
No. People	12	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	1.3	15.3	11.7	478	77.2	63.2	65.3	54.7	52.2	55.0	Floor	580		Main Htg	-9.1	287	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.7	95	19.0	54.7	
											ExFlr	0		Reheat	-2.1	144	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-12.8			
Total	1.3	15.3																	

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 014

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 6 / 19		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 78		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Cooling	Heating	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads									
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0	91.8	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6	67.6	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	76.9	41.4	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0	0.0	
Wall Cond	354	86	440	1	419	2	Wall Cond	-928	-1,158	4.11	Fn BldTD	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	-1,228	-1,228	4.35				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-10,661	-10,661	37.81				
Sub Total ==>	354	86	440	1	419	2	Sub Total ==>	-12,816	-13,046	46.27				
Internal Loads					Internal Loads									
Lights	3,239	810	4,049	13	3,239	14	Lights	0	0	0.00				
People	7,200	0	7,200	24	4,000	17	People	0	0	0.00				
Misc	14,993	0	14,993	49	14,993	65	Misc	0	0	0.00				
Sub Total ==>	25,433	810	26,243	86	22,233	97	Sub Total ==>	0	0	0.00				
Ceiling Load					Ceiling Load									
Ventilation Load	0	-284	0	0	297	1	Ventilation Load	-195	0	0.00				
Adj Air Trans Heat	0	0	3,638	12	0	0	Adj Air Trans Heat	0	-9,111	32.31				
Dehumid. Ov Sizing	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Ov/Undr Sizing	0		0	0	0	0	Ov/Undr Sizing	-5,822	-5,822	20.65				
Exhaust Heat		-112	0	0	0	0	Exhaust Heat		168	-0.59				
Sup. Fan Heat			308	1			OA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			RA Preheat Diff.		0	0.00				
Duct Heat Pkup		0	0	0			Additional Reheat		0	0.00				
Underflr Sup Ht Pkup			0	0			System Plenum Heat		-385	1.36				
Supply Air Leakage		0	0	0			Underflr Sup Ht Pkup		0	0.00				
							Supply Air Leakage		0	0.00				
Grand Total ==>	26,071	499	30,516	100.00	22,949	100.00	Grand Total ==>	-18,834	-28,196	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	1,043	719
Terminal	1,043	719
Main Fan	1,043	313
Sec Fan	0	406
Nom Vent	169	169
AHU Vent	169	169
Infil	0	198
MinStop/Rh	313	313
Return	1,043	511
Exhaust	169	367
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	16.2	16.4
cfm/ft²	0.70	0.48
cfm/ton	410.07	
ft²/ton	583.18	
Btu/hr-ft²	20.58	-20.39
No. People	16	

AIRFLOWS		
	Cooling	Heating
Diffuser	1,043	719
Terminal	1,043	719
Main Fan	1,043	313
Sec Fan	0	406
Nom Vent	169	169
AHU Vent	169	169
Infil	0	198
MinStop/Rh	313	313
Return	1,043	511
Exhaust	169	367
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	16.2	16.4
cfm/ft²	0.70	0.48
cfm/ton	410.07	
ft²/ton	583.18	
Btu/hr-ft²	20.58	-20.39
No. People	16	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F	
Main Clg	2.5	30.5	25.3	1,039	76.9	62.9	64.7	54.7	52.9	57.5	Floor	1,483		Main Htg	-23.6	719	62.0	91.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-6.6	169	19.0	54.7
											ExFlr	46		Reheat	-4.6	313	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	232	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-30.2			
Total	2.5	30.5																

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 015

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 11		Mo/Hr: 6 / 10		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 78 / 65 / 76		OADB: 75		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.6	67.6
Glass Solar	9,383	0	29	10,043	37	Glass Solar	0	0.00	0	0	0.00	Ret/OA	75.8	52.0
Glass/Door Cond	45	0	0	-103	0	Glass/Door Cond	-3,091	12.57	-3,091	-3,091	12.57	Fn MtrTD	0.0	0.0
Wall Cond	2,114	737	9	2,340	9	Wall Cond	-1,962	10.77	-2,648	-2,648	10.77	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0.00	0	Floor	0	0.00	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	Infiltration	-3,451	14.03	-3,451	-3,451	14.03			
Sub Total ==>	11,542	737	12,279	38	12,280	45	Sub Total ==>	37.36	-8,504	-9,189	37.36			
Internal Loads				Internal Loads				Internal Loads						
Lights	1,048	262	4	1,048	4	Lights	0	0.00	0	0	0.00			
People	8,100	0	25	4,500	17	People	0	0.00	0	0	0.00			
Misc	9,215	0	28	9,215	34	Misc	0	0.00	0	0	0.00			
Sub Total ==>	18,364	262	18,626	57	14,764	54	Sub Total ==>	0	0	0	0.00			
Ceiling Load	88	-88	0	0	87	0	Ceiling Load	-63	0	0	0.00			
Ventilation Load	0	0	1,486	5	0	0	Ventilation Load	0	-6,405	26.04	26.04			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-9,339	-9,339	37.97	37.97			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	84	-0.34	-0.34	-0.34			
Exhaust Heat	-76	-76	0	0	0	0	OA Preheat Diff.	0	0	0.00	0.00			
Sup. Fan Heat	355	355	1	1	1	1	RA Preheat Diff.	0	0	0.00	0.00			
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00	0.00			
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	255	-1.04	-1.04	-1.04			
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00	0.00			
Grand Total ==>	29,993	835	32,670	100.00	27,131	100.00	Grand Total ==>	-17,906	-24,596	100.00	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	1,233	740
Terminal	1,233	740
Main Fan	1,233	370
Sec Fan	0	370
Nom Vent	119	119
AHU Vent	119	119
Infil	0	64
MinStop/Rh	370	370
Return	1,233	434
Exhaust	119	183
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.6	10.7
cfm/ft²	2.57	1.54
cfm/ton	452.84	
ft²/ton	176.31	
Btu/hr-ft²	68.06	-58.64
No. People	18	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	2.7	32.7	27.9	1,199	75.8	62.2	63.2	54.7	52.8	57.3	Floor	480			Main Htg	-23.5	740	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-4.7	119	19.0	54.7
											ExFlr	0			Reheat	-5.4	370	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
Total	2.7	32.7									Wall	692	161	23	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-28.2			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 016

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES							
Peaked at Time:		Mo/Hr: 6 / 10			Mo/Hr: 6 / 10		Mo/Hr: Heating Design					Cooling			Heating				
Outside Air:		OADB/WB/HR: 75 / 64 / 73			OADB: 75		OADB: 19					SADB			90.0				
												Ra Plenum			67.6				
												Return			67.6				
												Ret/OA			54.0				
												Fn MtrTD			0.0				
												Fn BldTD			0.0				
												Fn Frict			0.0				

AIRFLOWS		
	Cooling	Heating
Diffuser	1,463	878
Terminal	1,463	878
Main Fan	1,463	439
Sec Fan	0	439
Nom Vent	122	122
AHU Vent	122	122
Infil	0	105
MinStop/Rh	439	439
Return	1,463	544
Exhaust	122	228
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	8.4	9.3
cfm/ft²	1.85	1.11
cfm/ton	460.63	
ft²/ton	248.81	
Btu/hr-ft²	48.23	-41.35
No. People	15	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	3.2	38.1	34.1	1,463	75.5	62.0	62.8	54.7	53.0	58.2	Floor	790		Main Htg	-27.9	878	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-4.8	122	19.0	54.7	
											ExFlr	0		Reheat	-6.4	439	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	1,136	242	21	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-32.7			
Total	3.2	38.1																	

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 017

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 11					Mo/Hr: 6 / 10			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 78 / 65 / 76					OADB: 75			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	4,691	0	4,691	27	5,022	40	0	0	0	0.00	Ret/OA	75.9	40.0
Glass/Door Cond	23	0	23	0	-52	0	0	-1,545	-1,545	11.34	Fn MtrTD	0.0	0.0
Wall Cond	859	319	1,178	7	951	8	0	-797	-1,095	8.03	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-2,049	-2,049	15.04			
Sub Total ==>	5,573	319	5,892	34	5,921	47	0	-4,391	-4,689	34.42			
Internal Loads					Internal Loads			Internal Loads					
Lights	623	156	778	5	623	5	0	0	0	0.00			
People	7,200	0	7,200	42	4,000	32	0	0	0	0.00			
Misc	1,945	0	1,945	11	1,945	16	0	0	0	0.00			
Sub Total ==>	9,768	156	9,924	58	6,568	52	0	0	0	0.00			
Ceiling Load	52	-52	0	0	52	0	0	-38	0	0.00			
Ventilation Load	0	0	1,214	7	0	0	0	0	-5,235	38.43			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-3,848	-3,848	28.24			
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	62	-0.45			
Exhaust Heat	0	-62	0	0	0	0	0	OA Preheat Diff.	0	0.00			
Sup. Fan Heat	0	164	1	0	0	0	0	RA Preheat Diff.	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	86	-0.63			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00			
Grand Total ==>	15,393	361	17,132	100.00	12,540	100.00	0	-8,277	-13,624	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	570	342
Terminal	570	342
Main Fan	570	171
Sec Fan	0	171
Nom Vent	97	97
AHU Vent	97	97
Infil	0	38
MinStop/Rh	171	171
Return	570	209
Exhaust	97	135
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.0	18.9
cfm/ft²	2.00	1.20
cfm/ton	399.13	
ft²/ton	199.62	
Btu/hr-ft²	60.11	-51.47
No. People	16	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.4	17.1	13.0	554	75.9	62.5	64.3	54.7	51.8	53.4	Floor	285		Main Htg	-10.9	342	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.8	97	19.0	54.7
											ExFlr	0		Reheat	-2.5	171	54.7	68.0
Total	1.4	17.1									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	300	81	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-14.7			

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 018

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads									
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00		SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00		Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00		Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00		Ret/OA	75.9	61.7
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00		Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00		Fn BldTD	0.1	0.0
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00		Fn Frict	0.2	0.0
Floor	0		0	0	0.00	0	Floor	0	0	0.00				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-1,042	-1,042	25.89				
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-1,042	-1,042	25.89				
Internal Loads					Internal Loads									
Lights	317	79	396	7	317	6	Lights	0	0	0.00				
People	0	0	0	0	0	0	People	0	0	0.00				
Misc	4,949	0	4,949	88	4,949	93	Misc	0	0	0.00				
Sub Total ==>	5,266	79	5,345	95	5,266	99	Sub Total ==>	0	0	0.00				
Ceiling Load	28	-28	0	0	30	1	Ceiling Load	-19	0	0.00				
Ventilation Load	0	0	187	3	0	0	Ventilation Load	0	-469	11.65				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-2,434	-2,434	60.45				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		13	-0.32				
Exhaust Heat		-6	-6	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			71	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-94	2.33				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	5,293	46	5,598	100.00	5,296	100.00	Grand Total ==>	-3,495	-4,026	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	241	144
Terminal	241	144
Main Fan	241	72
Sec Fan	0	72
Nom Vent	9	9
AHU Vent	9	9
Infil	0	19
MinStop/Rh	72	72
Return	241	92
Exhaust	9	28
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.6	4.0
cfm/ft²	1.66	1.00
cfm/ton	515.91	
ft²/ton	310.85	
Btu/hr-ft²	38.60	-33.96
No. People	0	

AIRFLOWS		
	Cooling	Heating
Diffuser	241	144
Terminal	241	144
Main Fan	241	72
Sec Fan	0	72
Nom Vent	9	9
AHU Vent	9	9
Infil	0	19
MinStop/Rh	72	72
Return	241	92
Exhaust	9	28
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	3.6	4.0
cfm/ft²	1.66	1.00
cfm/ton	515.91	
ft²/ton	310.85	
Btu/hr-ft²	38.60	-33.96
No. People	0	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.5	5.6	5.5	241	75.9	62.1	62.5	54.7	54.1	62.5	Floor	145		Main Htg	-4.6	144	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.3	9	19.0	54.7		
											ExFlr	0		Reheat	-1.1	72	54.7	68.0		
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	0	Total	-4.9				
Total	0.5	5.6																		

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 019

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	90.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	77.0
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	40.4
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.0
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-4,601	-4,601	27.43			0.0
Sub Total ==>	0	0	0	0	0	0		-4,601	-4,601	27.43			0.0
Internal Loads								Internal Loads					
Lights	1,398	349	1,747	8	1,398	9		0	0	0.00		AIRFLOWS	
People	7,200	0	7,200	33	4,000	26		0	0	0.00		Cooling	Heating
Misc	10,000	0	10,000	46	10,000	64		0	0	0.00		Diffuser	
Sub Total ==>	18,598	349	18,947	88	15,398	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	123	-123	0	0	134	1		-84	0	0.00		Sec Fan	
Ventilation Load	0	0	2,549	12	0	0		0	-6,384	38.06		Nom Vent	
Adj Air Trans Heat	0	0	0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				0	0	0.00		Infil	
Ov/Undr Sizing	0		0	0	0	0		-5,566	-5,566	33.18		MinStop/Rh	
Exhaust Heat		-79	-79	0				0	93	-0.56		Return	
Sup. Fan Heat			209	1				0	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				0	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				0	0	0.00		Auxiliary	
Underflr Sup Ht Pkup			0	0				0	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				0	0	0.00		Leakage Ups	
Grand Total ==>	18,721	148	21,626	100.00	15,532	100.00		-10,251	-16,774	100.00		ENGINEERING CKS	
												Cooling	Heating
												% OA	
												cfm/ft²	
												cfm/ton	
												ft²/ton	
												Btu/hr-ft²	
												No. People	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg			
ton MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft² (%)	MBh	MBh	cfm	°F	°F			
Main Clg	1.8	21.6	17.0	77.0	63.0	64.7	54.7	52.4	55.8	Floor	640	-13.4	423	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	-4.7	118	19.0	54.7		
										ExFlr	0	-3.1	212	54.7	68.0		
Total	1.8	21.6								Roof	0	0.0	0	0.0	0.0		
										Wall	0	0.0	0	0.0	0.0		
										Ext Door	0	0.0	0	0.0	0.0		
										Total	-18.1						

Zone Checksums

By MacDonald-Miller Facility Solutions

Zone - 020

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.0	39.2
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	466	280
Terminal	466	280
Main Fan	466	140
Sec Fan	0	140
Nom Vent	82	82
AHU Vent	82	82
Infil	0	71
MinStop/Rh	140	140
Return	466	210
Exhaust	82	152
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	19.5
cfm/ft²	0.88	0.53
cfm/ton	391.64	
ft²/ton	445.49	
Btu/hr-ft²	26.94	-22.81
No. People	10	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.2	14.3	11.3	465	77.0	63.0	64.9	54.7	52.5	56.1	Floor	530		Main Htg	-8.9	280	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.2	82	19.0	54.7
											ExFlr	0		Reheat	-2.0	140	54.7	68.0
Total	1.2	14.3									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-12.1			

Room Checksums

By MacDonald-Miller Facility Solutions

101 - Reception

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 18		Mo/Hr: 6 / 18		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 81 / 65 / 68		OADB: 81		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	95.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.7	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.7	67.6
Glass Solar	8,216	0	50	8,216	60	Glass Solar	0	0.00	0	0	0.00	Ret/OA	76.2	51.1
Glass/Door Cond	277	0	2	277	2	Glass/Door Cond	-2,338	10.53	-2,338	-1,337	6.02	Fn MtrTD	0.0	0.0
Wall Cond	1,377	560	12	1,377	10	Wall Cond	-951	6.02	-1,337	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0.00	0	Floor	-1,359	6.12	-1,359	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	Infiltration	-13,803	62.15	-13,803	0	0.00			
<i>Sub Total ==></i>	9,870	560	64	9,870	72	<i>Sub Total ==></i>	-18,450	84.82	-18,450	-18,837	84.82			
Internal Loads				Internal Loads				Internal Loads						
Lights	1,398	349	11	1,398	10	Lights	0	0.00	0	0	0.00			
People	2,250	0	14	1,250	9	People	0	0.00	0	0	0.00			
Misc	1,092	0	7	1,092	8	Misc	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	4,740	349	31	3,740	27	<i>Sub Total ==></i>	0	0.00	0	0	0.00			
Ceiling Load	132	-132	0	132	1	Ceiling Load	-84	0.00	-84	0	0.00			
Ventilation Load	0	0	671	4	0	Ventilation Load	0	15.39	0	-3,418	15.39			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	-0.66	0	146	-0.66			
Exhaust Heat	0	-46	0	0	0	OA Preheat Diff.	0	0.00	0	0	0.00			
Sup. Fan Heat	0	185	1	0	1	RA Preheat Diff.	0	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.45	0	-100	0.45			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	0	0	0.00			
<i>Grand Total ==></i>	14,742	731	16,330	100.00	13,742	100.00	<i>Grand Total ==></i>	-18,534	-22,209	100.00	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	624	624
Terminal	624	624
Main Fan	624	187
Sec Fan	0	437
Nom Vent	63	63
AHU Vent	63	63
Infil	0	256
MinStop/Rh	187	187
Return	624	443
Exhaust	63	319
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.2	7.8
cfm/ft²	0.98	0.97
cfm/ton	458.88	
ft²/ton	470.30	
Btu/hr-ft²	25.52	-37.44
No. People	5.0	7.8/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.4	16.3	15.1	624	76.2	62.2	62.5	54.7	53.2	58.8	Floor	640		Main Htg	-21.5	624	63.7	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-2.5	63	19.0	54.7
											ExFlr	51		Reheat	-2.7	187	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	390	122	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0					
Total	1.4	16.3												Total	-24.0			

Room Checksums

By MacDonald-Miller Facility Solutions

103 - Reception Desk

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total	(%)				
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0	0.00			Ret/OA	76.8	44.1
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00			Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0	0.00			Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0	0.00			Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0	0.00					
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00					
Infiltration	0	0	0	0	0	0	0	Infiltration	-733	-733	29.22	29.22					
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-733	-733	29.22	29.22					
Internal Loads					Internal Loads					Internal Loads							
Lights	223	56	279	9	223	9	9	Lights	0	0	0	0.00					
People	900	0	900	28	500	20	20	People	0	0	0	0.00					
Misc	1,707	0	1,707	52	1,707	70	70	Misc	0	0	0	0.00					
Sub Total ==>	2,829	56	2,885	89	2,429	99	99	Sub Total ==>	0	0	0	0.00					
Ceiling Load	20	-20	0	0	21	1	1	Ceiling Load	-13	0	0.00	0.00					
Ventilation Load	0	0	347	11	0	0	0	Ventilation Load	0	-869	34.63	34.63					
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0	0					
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-871	-871	34.69	34.69					
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		14	-0.54	-0.54					
Exhaust Heat		-11	-11	0				OA Preheat Diff.		0	0.00	0.00					
Sup. Fan Heat			33	1				RA Preheat Diff.		0	0.00	0.00					
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00	0.00					
Duct Heat Pkup		0	0	0				System Plenum Heat		-50	2.00	2.00					
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00	0.00					
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00	0.00					
Grand Total ==>	2,849	25	3,254	100.00	2,451	100.00	100.00	Grand Total ==>	-1,617	-2,510	100.00	100.00					

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.3	2.7	111	76.8	62.8	64.3	54.7	52.8	57.2	Floor	102		Main Htg	-2.1	67	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.6	16	19.0	54.7	
											ExFlr	0		Reheat	-0.5	33	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-2.8			
Total	0.3	3.3																	

Room Checksums

By MacDonald-Miller Facility Solutions

104 - Board Room North

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 18					Mo/Hr: 6 / 18			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 81 / 65 / 68					OADB: 81			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.7	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.7	67.6
Glass Solar	5,254	0	5,254	28	5,254	34	0	0	0	0.00	Ret/OA	76.2	51.6
Glass/Door Cond	178	0	178	1	178	1	0	-1,505	-1,505	10.73	Fn MtrTD	0.0	0.0
Wall Cond	2,121	591	2,712	14	2,121	14	0	-2,911	-3,730	26.59	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-2,883	-2,883	20.55			
Sub Total ==>	7,553	591	8,144	43	7,553	49	0	-7,299	-8,117	57.87			
Internal Loads					Internal Loads			Internal Loads					
Lights	876	219	1,095	6	876	6	0	0	0	0.00			
People	4,050	0	4,050	22	2,250	15	0	0	0	0.00			
Misc	4,608	0	4,608	25	4,608	30	0	0	0	0.00			
Sub Total ==>	9,533	219	9,752	52	7,733	50	0	0	0	0.00			
Ceiling Load	83	-83	0	0	83	1	0	-53	0	0.00			
Ventilation Load	0	0	731	4	0	0	0	0	-3,723	26.54			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-2,792	-2,792	19.91			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	56	-0.40			
Exhaust Heat	0	-50	-50	0	0	0	0	0	0	0.00			
Sup. Fan Heat	0	207	207	1	0	0	0	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0	550	-3.92			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0.00			
Grand Total ==>	17,169	677	18,785	100.00	15,369	100.00	0	-10,144	-14,027	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	698	419
Terminal	698	419
Main Fan	698	210
Sec Fan	0	210
Nom Vent	69	69
AHU Vent	69	69
Infil	0	53
MinStop/Rh	210	210
Return	698	263
Exhaust	69	123
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.9	11.0
cfm/ft²	1.74	1.04
cfm/ton	446.14	
ft²/ton	256.17	
Btu/hr-ft²	46.84	-39.93
No. People	9.0	22.4/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	1.6	18.8	16.7	698	76.2	62.2	62.5	54.7	52.9	57.6	Floor	401		Main Htg	-13.3	419	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-2.7	69	19.0	54.7	
											ExFlr	0		Reheat	-3.1	210	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	826	78	9	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-16.0			
Total	1.6	18.8																	

Room Checksums

By MacDonald-Miller Facility Solutions

104 - Board Room South

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 17		Mo/Hr: 6 / 18		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 83 / 66 / 71		OADB: 81		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.7	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.7	67.6
Glass Solar	4,843	0	4,843	20	5,288	Glass Solar	0	0.00	0	0	0.00	Ret/OA	76.5	47.8
Glass/Door Cond	216	0	216	1	178	Glass/Door Cond	-1,505	7.82	-1,505	-1,505	7.82	Fn MtrTD	0.0	0.0
Wall Cond	2,037	567	2,604	11	2,124	Wall Cond	-2,911	19.38	-2,911	-3,730	19.38	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	Floor	0	0.00	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	Infiltration	-4,817	25.03	-4,817	-4,817	25.03			
<i>Sub Total ==></i>	7,097	567	7,664	31	7,591	<i>Sub Total ==></i>	-9,232	52.22	-9,232	-10,051	52.22			
Internal Loads				Internal Loads				Internal Loads						
Lights	1,463	366	1,829	7	1,463	Lights	0	0.00	0	0	0.00			
People	6,300	0	6,300	25	3,500	People	0	0.00	0	0	0.00			
Misc	7,167	0	7,167	29	7,167	Misc	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	14,931	366	15,297	62	12,131	<i>Sub Total ==></i>	0	0.00	0	0	0.00			
Ceiling Load	139	-139	0	0	139	Ceiling Load	-88	0.00	-88	0	0.00			
Ventilation Load	0	0	1,602	6	0	Ventilation Load	0	30.87	0	-5,942	30.87			
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	-3,787	19.68	-3,787	-3,787	19.68			
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	91	-0.47	91	91	-0.47			
Exhaust Heat	-80	-80	0	0	0	OA Preheat Diff.	0	0.00	0	0	0.00			
Sup. Fan Heat	261	261	1	1	1	RA Preheat Diff.	0	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	442	-2.30	442	442	-2.30			
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00	0	0	0.00			
<i>Grand Total ==></i>	22,167	714	24,743	100.00	19,860	<i>Grand Total ==></i>	-13,108	100.00	-13,108	-19,247	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft²	(%)	Capacity	Coil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb					MBh	cfm			
Main Clg	2.1	24.7	21.3	880	76.5	62.4	63.0	54.7	52.7	670	0	0	0	Main Htg	-17.2	541	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	1	0	0	0	Preheat	-4.3	110	19.0	54.7
										0	0	0	0	Reheat	-4.0	271	54.7	68.0
										0	0	0	0	Humidif	0.0	0	0.0	0.0
										826	78	9	9	Opt Vent	0.0	0	0.0	0.0
Total	2.1	24.7								0	0	0	0	Total	-21.5			

Room Checksums

By MacDonald-Miller Facility Solutions

105 - Furniture Storage

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 19			Mo/Hr: Heating Design			Cooling Heating		
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 78			OADB: 19			SADB	55.0	95.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent	Ra Plenum	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total	Return	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)	Ret/OA	76.8	43.9
Envelope Loads					Envelope Loads			Envelope Loads			Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	AIRFLOWS		
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Cooling Heating		
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Diffuser	102	90
Wall Cond	321	78	398	15	379	17	0	-840	-1,048	29.83	Terminal	102	90
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Main Fan	102	31
Floor	0	0	0	0	0.00	0	0	0	0	0.00	Sec Fan	0	59
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	Nom Vent	15	15
Infiltration	0	0	0	0	0	0	0	-1,797	-1,797	51.16	AHU Vent	15	15
Sub Total ==>	321	78	398	15	379	17	0	-2,637	-2,845	80.99	Infil	0	33
Internal Loads					Internal Loads			Internal Loads			MinStop/Rh	31	31
Lights	546	137	683	25	546	24	0	0	0	0.00	Return	102	64
People	0	0	0	0	0	0	0	0	0	0.00	Exhaust	15	48
Misc	1,280	0	1,280	47	1,280	57	0	0	0	0.00	Rm Exh	0	0
Sub Total ==>	1,826	137	1,962	73	1,826	81	0	0	0	0.00	Auxiliary	0	0
Ceiling Load	48	-48	0	0	50	2	-33	0	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	323	12	0	0	0	-809	23.02		Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0.00	Cooling Heating		
Ov/Undr Sizing	0	0	0	0	0	0	0	22	-0.63		% OA	14.6	12.4
Exhaust Heat	0	-10	-10	0	0	0	0	0	0	0.00	cfm/ft²	0.41	0.36
Sup. Fan Heat	0	30	30	1	0	0	0	0	0	0.00	cfm/ton	454.91	
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0.00	ft²/ton	1,109.79	
Duct Heat Pkup	0	0	0	0	0	0	0	119	-3.38		Btu/hr-ft²	10.81	-14.94
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0.00	No. People	0.0	0.0/1000 ft²
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0.00			
Grand Total ==>	2,195	156	2,703	100.00	2,255	100.00	Grand Total ==>	-2,670	-3,513	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.2	2.7	2.5	100	76.8	62.8	64.4	54.7	53.6	60.4	Floor	250		Main Htg	-3.2	90	63.2	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.6	15	19.0	54.7
											ExFlr	0		Reheat	-0.5	31	54.7	68.0
Total	0.2	2.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	210	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.7			

Room Checksums

By MacDonald-Miller Facility Solutions

106 - Archive

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 19			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 78			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	95.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	76.9
Wall Cond	232	56	288	14	274	16	28.17	Wall Cond	-608	-758	28.17	Fn BldTD	43.6
Partition/Door	0	0	0	0	0	0	0.00	Partition/Door	0	0	0.00	Fn Frict	0.0
Floor	0	0	0	0	0.00	0	0.00	Floor	0	0	0.00		0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		0.0
Infiltration	0	0	0	0	0	0	52.07	Infiltration	-1,402	-1,402	52.07		0.0
Sub Total ==>	232	56	288	14	274	16	80.24	Sub Total ==>	-2,010	-2,160	80.24		0.0
Internal Loads					Internal Loads			Internal Loads					
Lights	426	106	532	26	426	25	0.00	Lights	0	0	0.00	AIRFLOWS	
People	0	0	0	0	0	0	0.00	People	0	0	0.00	Cooling	Heating
Misc	998	0	998	48	998	57	0.00	Misc	0	0	0.00	Diffuser	
Sub Total ==>	1,424	106	1,531	73	1,424	82	0.00	Sub Total ==>	0	0	0.00	Terminal	
Ceiling Load	37	-37	0	0	39	2	0.00	Ceiling Load	-26	0	0.00	Main Fan	
Ventilation Load	0	0	252	12	0	0	23.43	Ventilation Load	0	-631	23.43	Sec Fan	
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	
Dehumid. Ov Sizing			0	0			0.00	Ov/Undr Sizing	0	0	0.00	AHU Vent	
Ov/Undr Sizing	0	0	0	0	0	0	-0.64	Exhaust Heat		17	-0.64	Infil	
Exhaust Heat		-8	0	0			0.00	OA Preheat Diff.		0	0.00	MinStop/Rh	
Sup. Fan Heat		23	1	0			0.00	RA Preheat Diff.		0	0.00	Return	
Ret. Fan Heat		0	0	0			0.00	Additional Reheat		0	0.00	Exhaust	
Duct Heat Pkup		0	0	0			-3.04	System Plenum Heat		82	-3.04	Rm Exh	
Underflr Sup Ht Pkup		0	0	0			0.00	Underflr Sup Ht Pkup		0	0.00	Auxiliary	
Supply Air Leakage		0	0	0			0.00	Supply Air Leakage		0	0.00	Leakage Dwn	
Grand Total ==>	1,694	117	2,086	100.00	1,738	100.00	Grand Total ==>	-2,035	-2,692	100.00	Leakage Ups		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.2	2.1	2.0	77	76.9	62.9	64.5	54.7	53.6	60.5	Floor	195		Main Htg	-2.4	69	63.1	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.5	12	19.0	54.7
											ExFlr	0		Reheat	-0.4	24	54.7	68.0
Total	0.2	2.1									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	152	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-2.9			

Room Checksums

By MacDonald-Miller Facility Solutions

107 - Mail Area

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14		Mo/Hr: 6 / 19		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 84 / 68 / 79		OADB: 78		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	95.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	0	0	0.00	Ret/OA	77.1	37.8
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	206	50	256	7	244	8	Wall Cond	15.76	-540	-674	15.76	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	Partition/Door	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0.00	0	0	Floor	0.00	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	Infiltration	54.67	-2,336	-2,336	54.67			
Sub Total ==>	206	50	256	7	244	8	Sub Total ==>	70.43	-2,876	-3,010	70.43			
Internal Loads				Internal Loads				Internal Loads						
Lights	710	177	887	23	710	24	Lights	0.00	0	0	0.00			
People	450	0	450	12	250	9	People	0.00	0	0	0.00			
Misc	1,664	0	1,664	44	1,664	57	Misc	0.00	0	0	0.00			
Sub Total ==>	2,824	177	3,001	79	2,624	89	Sub Total ==>	0.00	0	0	0.00			
Ceiling Load	62	-62	0	0	65	2	Ceiling Load	0.00	-43	0	0.00			
Ventilation Load	0	0	527	14	0	0	Ventilation Load	30.91	0	-1,321	30.91			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0.00	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	-0.73	0	31	-0.73			
Exhaust Heat	0	-16	-16	0	0	0	OA Preheat Diff.	0.00	0	0	0.00			
Sup. Fan Heat	0	39	39	1	0	0	RA Preheat Diff.	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	-0.61	26	-0.61	-0.61			
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0.00	0	0	0.00			
Grand Total ==>	3,092	149	3,807	100.00	2,933	100.00	Grand Total ==>	100.00	-2,919	-4,274	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft²	(%)	Capacity	Coil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb					MBh	cfm			
Main Clg	0.3	3.8	3.3	131	77.1	63.1	65.1	54.7	53.2	58.8	Floor	325		Main Htg	-3.5	98	62.4	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	25	19.0	54.7
											ExFlr	0		Reheat	-0.6	40	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	135	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-4.5			
Total	0.3	3.8																

Room Checksums

By MacDonald-Miller Facility Solutions

111 - Library

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0		Skylite Cond	0	0	0.00	Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0		Roof Cond	0	0	0.00	Return	75.6
Glass Solar	0	0	0	0	0	0		Glass Solar	0	0	0.00	Ret/OA	77.0
Glass/Door Cond	0	0	0	0	0	0		Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0
Wall Cond	0	0	0	0	0	0		Wall Cond	0	0	0.00	Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0		Partition/Door	0	0	0.00	Fn Frict	0.2
Floor	0	0	0	0	0.00	0		Floor	0	0	0.00		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		Adjacent Floor	0.00	0.00	0.00		
Infiltration	0	0	0	0	0	0		Infiltration	-719	-719	67.56		
Sub Total ==>	0	0	0	0	0	0		Sub Total ==>	-719	-719	67.56		
Internal Loads					Internal Loads			Internal Loads					
Lights	218	55	273	30	218	29		Lights	0	0	0.00	AIRFLOWS	
People	0	0	0	0	0	0		People	0	0	0.00	Cooling	Heating
Misc	512	0	512	56	512	68		Misc	0	0	0.00	Diffuser	34
Sub Total ==>	730	55	785	85	730	97		Sub Total ==>	0	0	0.00	Terminal	34
Ceiling Load	19	-19	0	0	21	3		Ceiling Load	-13	0	0.00	Main Fan	34
Ventilation Load	0	0	129	14	0	0		Ventilation Load	0	-324	30.40	Sec Fan	0
Adj Air Trans Heat	0		0	0	0	0		Adj Air Trans Heat	0	0	0	Nom Vent	6
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	0	0	0.00	AHU Vent	6
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat	9	-0.83		Infil	0
Exhaust Heat		-4	-4	0				OA Preheat Diff.	0	0.00		MinStop/Rh	10
Sup. Fan Heat			10	1				RA Preheat Diff.	0	0.00		Return	34
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Exhaust	6
Duct Heat Pkup		0	0	0				System Plenum Heat	-31	2.87		Rm Exh	0
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Auxiliary	0
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Dwn	0
Grand Total ==>	750	31	920	100.00	751	100.00		Grand Total ==>	-732	-1,064	100.00	Leakage Ups	0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	MBh	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.1	0.9	0.9	34	77.0	63.0	64.9	54.7	53.8	61.3	Floor	100		Main Htg	-0.9	25	62.2	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.2	6	19.0	54.7
											ExFlr	0		Reheat	-0.2	10	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-1.1			
Total	0.1	0.9																

Room Checksums

By MacDonald-Miller Facility Solutions

112 - General Storage

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design					Cooling			Heating
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19					SADB			95.0
Space		Plenum		Net	Percent	Space		Coil Peak		Percent		Ra Plenum			67.6
Sens. + Lat.		Sens. + Lat		Total	Of Total	Sensible		Space Peak		Of Total		Return			67.6
Btu/h		Btu/h		Btu/h	(%)	Btu/h		Space Sens		Tot Sens		Ret/OA			39.1
				Btu/h				Btu/h		Btu/h		Fn MtrTD			0.0
Envelope Loads					Envelope Loads					Fn BldTD					0.0
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0.00	Fn Frict			0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0.00				
Roof Cond	0	0	0	0	0	0	0	0	0	0	0.00				
Glass Solar	0	0	0	0	0	0	0	0	0	0	0.00				
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0.00				
Wall Cond	0	0	0	0	0	0	0	0	0	0	0.00				
Partition/Door	0		0	0	0	0	0	0	0	0	0.00				
Floor	0		0	0	0.00	0	0	0	0	0	0.00				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	0	-2,502	-2,502	67.56					
Sub Total ==>	0	0	0	0	0	0	0	-2,502	-2,502	67.56					
Internal Loads					Internal Loads										
Lights	760	190	950	30	760	29	Lights	0	0	0.00					
People	0	0	0	0	0	0	People	0	0	0.00					
Misc	1,782	0	1,782	56	1,782	68	Misc	0	0	0.00					
Sub Total ==>	2,542	190	2,732	85	2,542	97	Sub Total ==>	0	0	0.00					
Ceiling Load	67	-67	0	0	73	3	Ceiling Load	-46	0	0.00					
Ventilation Load	0	0	449	14	0	0	Ventilation Load	0	-1,126	30.40					
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0					
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00					
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		31	-0.83					
Exhaust Heat		-14	-14	0			OA Preheat Diff.		0	0.00					
Sup. Fan Heat			35	1			RA Preheat Diff.		0	0.00					
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00					
Duct Heat Pkup		0	0	0			System Plenum Heat		-106	2.87					
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00					
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00					
Grand Total ==>	2,608	109	3,202	100.00	2,615	100.00	Grand Total ==>	-2,548	-3,703	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	119	86
Terminal	119	86
Main Fan	119	36
Sec Fan	0	50
Nom Vent	21	21
AHU Vent	21	21
Infil	0	46
MinStop/Rh	36	36
Return	119	82
Exhaust	21	67
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	17.2
cfm/ft²	0.34	0.25
cfm/ton	445.21	
ft²/ton	1,303.98	
Btu/hr-ft²	9.20	-11.24
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.2	3.0	119	77.0	63.0	64.9	54.7	53.8	61.3	Floor	348		Main Htg	-3.1	86	62.2	95.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.8	21	19.0	54.7	
											ExFlr	0		Reheat	-0.5	36	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.9			
Total	0.3	3.2																	

Room Checksums

By MacDonald-Miller Facility Solutions

117 - Fitness Room

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0	0.00			Ret/OA	76.4	51.2
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00			Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0	0.00			Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0	0.00			Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	Floor	-2,037	-2,037	12.34						
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	Adjacent Floor	0.00	0.00	0.00						
Infiltration	0	0	0	0	0	0	0	Infiltration	-5,133	-5,133	31.08						
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-7,170	-7,170	43.42						
Internal Loads					Internal Loads												
Lights	1,560	390	1,950	7	1,560	9	0	Lights	0	0	0.00						
People	14,400	0	14,400	50	5,680	32	0	People	0	0	0.00						
Misc	10,580	0	10,580	37	10,580	59	0	Misc	0	0	0.00						
Sub Total ==>	26,540	390	26,930	93	17,820	99	0	Sub Total ==>	0	0	0.00						
Ceiling Load	137	-137	0	0	150	1	0	Ceiling Load	-94	0	0.00						
Ventilation Load	0	0	1,783	6	0	0	0	Ventilation Load	0	-4,466	27.05						
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing			0	0			0	Ov/Undr Sizing	-4,596	-4,596	27.83						
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		81	-0.49						
Exhaust Heat		-55	-55	0			0	OA Preheat Diff.		0	0.00						
Sup. Fan Heat			242	1			0	RA Preheat Diff.		0	0.00						
Ret. Fan Heat		0	0	0			0	Additional Reheat		0	0.00						
Duct Heat Pkup		0	0	0			0	System Plenum Heat		-362	2.19						
Underflr Sup Ht Pkup			0	0			0	Underflr Sup Ht Pkup		0	0.00						
Supply Air Leakage		0	0	0			0	Supply Air Leakage		0	0.00						
Grand Total ==>	26,677	198	28,900	100.00	17,970	100.00	0	Grand Total ==>	-11,860	-16,513	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	817	490
Terminal	817	490
Main Fan	817	245
Sec Fan	0	245
Nom Vent	83	83
AHU Vent	83	83
Infil	0	95
MinStop/Rh	245	245
Return	817	340
Exhaust	83	178
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	10.1	11.3
cfm/ft²	1.14	0.69
cfm/ton	339.06	
ft²/ton	296.47	
Btu/hr-ft²	40.48	-26.34
No. People	8.0	11.2/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	2.4	28.9	19.2	816	76.4	62.5	63.6	54.7	50.1	47.0	Floor	714		Main Htg	-15.6	490	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.3	83	19.0	54.7
											ExFlr	77		Reheat	-3.6	245	54.7	68.0
Total	2.4	28.9									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-18.8			

Room Checksums

By MacDonald-Miller Facility Solutions

118 - Corridor 2

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 19			Mo/Hr: Heating Design			Cooling Heating		
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 78			OADB: 19			SADB	55.0	95.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent	Ra Plenum	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total	Return	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)	Ret/OA	76.9	42.1
Envelope Loads					Envelope Loads			Envelope Loads			Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	AIRFLOWS		
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Cooling Heating		
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Diffuser	179	157
Wall Cond	354	86	440	9	419	11	0	-928	-1,158	18.51	Terminal	179	157
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Main Fan	179	54
Floor	0	0	0	0	0.00	0	0	-307	-307	4.91	Sec Fan	0	104
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	Nom Vent	28	28
Infiltration	0	0	0	0	0	0	0	-3,379	-3,379	54.02	AHU Vent	28	28
Sub Total ==>	354	86	440	9	419	11	0	-4,613	-4,843	77.43	Infil	0	63
Internal Loads					Internal Loads			Internal Loads			MinStop/Rh	54	54
Lights	1,027	257	1,283	27	1,027	26	0	0	0	0.00	Return	179	116
People	0	0	0	0	0	0	0	0	0	0.00	Exhaust	28	91
Misc	2,406	0	2,406	50	2,406	61	0	0	0	0.00	Rm Exh	0	0
Sub Total ==>	3,433	257	3,689	77	3,433	87	0	0	0	0.00	Auxiliary	0	0
Ceiling Load	90	-90	0	0	94	2	0	-62	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	607	13	0	0	0	0	-1,520	24.31	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0.00	Cooling Heating		
Ov/Undr Sizing	0	0	0	0	0	0	0	0	42	-0.66	% OA	15.7	13.4
Exhaust Heat	0	-19	-19	0	0	0	0	0	0	0.00	cfm/ft²	0.38	0.33
Sup. Fan Heat	0	0	52	1	0	0	0	0	0	0.00	cfm/ton	451.07	
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0.00	ft²/ton	1,182.40	
Duct Heat Pkup	0	0	0	0	0	0	0	0	67	-1.08	Btu/hr-ft²	10.15	-14.08
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0.00	No. People	0.0	0.0/1000 ft²
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0.00			
Grand Total ==>	3,877	234	4,770	100.00	3,946	100.00	Grand Total ==>	-4,675	-6,255	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.4	4.8	4.4	176	76.9	62.9	64.6	54.7	53.7	60.7	Floor	470			Main Htg	-5.5	157	63.2	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-1.1	28	19.0	54.7
											ExFlr	12			Reheat	-0.8	54	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	232	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-6.6			
Total	0.4	4.8																	

Room Checksums

By MacDonald-Miller Facility Solutions

122 - Booth Seating Area

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	90.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	78.3
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	19.0
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.0
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-1,761	-1,761	19.27			0.0
Sub Total ==>	0	0	0	0	0	0		-1,761	-1,761	19.27			0.0
Internal Loads								Internal Loads					
Lights	535	134	669	6	535	9		0	0	0.00		AIRFLOWS	
People	7,200	0	7,200	62	4,000	64		0	0	0.00		Cooling	Heating
Misc	1,672	0	1,672	14	1,672	27		0	0	0.00		Diffuser	
Sub Total ==>	9,408	134	9,541	82	6,208	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	47	-47	0	0	51	1		-32	0	0.00		Sec Fan	
Ventilation Load	0	0	2,039	18	0	0		0	-4,600	50.34		Nom Vent	
Adj Air Trans Heat	0	0	0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-2,337	-2,337	25.58	Infil	
Ov/Undr Sizing	0	0	0	0	0	0		Exhaust Heat	54	-0.59		MinStop/Rh	
Exhaust Heat		-63	-63	-1				OA Preheat Diff.	-369	4.03		Return	
Sup. Fan Heat		84	84	1				RA Preheat Diff.	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat	-125	1.37		Auxiliary	
Underflr Sup Ht Pkup		0	0	0				Underflr Sup Ht Pkup	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Ups	
Grand Total ==>	9,454	24	11,601	100.00	6,259	100.00		Grand Total ==>	-4,131	-9,139	100.00		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.0	11.6	7.3	284	78.3	64.0	67.6	54.7	49.9	46.3	Floor	245		Main Htg	-5.4	171	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.7	95	19.0	54.7
											ExFlr	0		Reheat	-1.3	85	54.7	68.0
Total	1.0	11.6									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-9.1			

Room Checksums

By MacDonald-Miller Facility Solutions

123 - Open Collab Area 3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.0	39.2
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	466	280
Terminal	466	280
Main Fan	466	140
Sec Fan	0	140
Nom Vent	82	82
AHU Vent	82	82
Infil	0	71
MinStop/Rh	140	140
Return	466	210
Exhaust	82	152
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	19.5
cfm/ft²	0.88	0.53
cfm/ton	391.64	
ft²/ton	445.49	
Btu/hr-ft²	26.94	-22.81
No. People	10.0	18.9/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	1.2	14.3	11.3	465	77.0	63.0	64.9	54.7	52.5	56.1	Floor	530		Main Htg	-8.9	280	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.2	82	19.0	54.7	
											ExFlr	0		Reheat	-2.0	140	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-12.1			
Total	1.2	14.3																	

Room Checksums

By MacDonald-Miller Facility Solutions

124 - Break Room

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	90.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	77.0
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	40.4
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.0
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-4,601	-4,601	27.43			0.0
Sub Total ==>	0	0	0	0	0	0		-4,601	-4,601	27.43			0.0
Internal Loads								Internal Loads					
Lights	1,398	349	1,747	8	1,398	9		0	0	0.00		AIRFLOWS	
People	7,200	0	7,200	33	4,000	26		0	0	0.00		Cooling	Heating
Misc	10,000	0	10,000	46	10,000	64		0	0	0.00		Diffuser	
Sub Total ==>	18,598	349	18,947	88	15,398	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	123	-123	0	0	134	1		-84	0	0.00		Sec Fan	
Ventilation Load	0	0	2,549	12	0	0		0	-6,384	38.06		Nom Vent	
Adj Air Trans Heat	0		0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-5,566	-5,566	33.18	Infil	
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat		93	-0.56	MinStop/Rh	
Exhaust Heat		-79	-79	0				OA Preheat Diff.		0	0.00	Return	
Sup. Fan Heat			209	1				RA Preheat Diff.		0	0.00	Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00	Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat		-317	1.89	Auxiliary	
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00	Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00	Leakage Ups	
Grand Total ==>	18,721	148	21,626	100.00	15,532	100.00		Grand Total ==>	-10,251	-16,774	100.00	ENGINEERING CKS	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F	
Main Clg	1.8	21.6	17.0	705	77.0	63.0	64.7	54.7	52.4	55.8	Floor	640		Main Htg	-13.4	423	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-4.7	118	19.0	54.7
											ExFlr	0		Reheat	-3.1	212	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-18.1			
Total	1.8	21.6																

Room Checksums

By MacDonald-Miller Facility Solutions

126 - AV Studio

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 11					Mo/Hr: 6 / 10			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 78 / 65 / 76					OADB: 75			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	4,691	0	4,691	27	5,022	40	0	0	0	0.00	Ret/OA	75.9	40.0
Glass/Door Cond	23	0	23	0	-52	0	0	-1,545	-1,545	11.34	Fn MtrTD	0.0	0.0
Wall Cond	859	319	1,178	7	951	8	0	-797	-1,095	8.03	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-2,049	-2,049	15.04			
Sub Total ==>	5,573	319	5,892	34	5,921	47	0	-4,391	-4,689	34.42			
Internal Loads					Internal Loads			Internal Loads					
Lights	623	156	778	5	623	5	0	0	0	0.00			
People	7,200	0	7,200	42	4,000	32	0	0	0	0.00			
Misc	1,945	0	1,945	11	1,945	16	0	0	0	0.00			
Sub Total ==>	9,768	156	9,924	58	6,568	52	0	0	0	0.00			
Ceiling Load	52	-52	0	0	52	0	0	-38	0	0.00			
Ventilation Load	0	0	1,214	7	0	0	0	0	-5,235	38.43			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-3,848	-3,848	28.24			
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	62	-0.45			
Exhaust Heat	0	-62	0	0	0	0	0	OA Preheat Diff.	0	0.00			
Sup. Fan Heat	0	0	164	1	0	0	0	RA Preheat Diff.	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	86	-0.63			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00			
Grand Total ==>	15,393	361	17,132	100.00	12,540	100.00	0	-8,277	-13,624	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	570	342
Terminal	570	342
Main Fan	570	171
Sec Fan	0	171
Nom Vent	97	97
AHU Vent	97	97
Infil	0	38
MinStop/Rh	171	171
Return	570	209
Exhaust	97	135
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.0	18.9
cfm/ft²	2.00	1.20
cfm/ton	399.13	
ft²/ton	199.62	
Btu/hr-ft²	60.11	-51.47
No. People	16.0	56.1/1000 ft²

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	1.4	17.1	13.0	554	75.9	62.5	64.3	54.7	51.8	53.4	Floor	285		Main Htg	-10.9	342	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.8	97	19.0	54.7		
											ExFlr	0		Reheat	-2.5	171	54.7	68.0		
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	300	81	27	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	0	Total	-14.7				
Total	1.4	17.1																		

Room Checksums

By MacDonald-Miller Facility Solutions

127 - Future Office 3

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 10					Mo/Hr: 6 / 10					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 75 / 64 / 73					OADB: 75					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	5,022	0	5,022	53	5,022	61	0	Glass Solar	0	0	0	0.00			Ret/OA	75.6	67.6
Glass/Door Cond	-52	0	-52	-1	-52	-1	0	Glass/Door Cond	-1,545	-1,545	22.51				Fn MtrTD	75.5	57.0
Wall Cond	617	272	888	9	617	7	0	Wall Cond	-517	-745	10.86				Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00				Fn Frict	0.1	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0.00						
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	Adjacent Floor	0.00	0.00	0.00						
Infiltration	0	0	0	0	0	0	0	Infiltration	-1,150	-1,150	16.76						
Sub Total ==>	5,587	272	5,858	62	5,587	68	0	Sub Total ==>	-3,213	-3,441	50.13						
Internal Loads					Internal Loads												
Lights	349	87	437	5	349	4	0	Lights	0	0	0.00						
People	1,350	0	1,350	14	750	9	0	People	0	0	0.00						
Misc	1,536	0	1,536	16	1,536	19	0	Misc	0	0	0.00						
Sub Total ==>	3,235	87	3,323	35	2,635	32	0	Sub Total ==>	0	0	0.00						
Ceiling Load	29	-29	0	0	29	0	0	Ceiling Load	-21	0	0.00						
Ventilation Load	0	0	187	2	0	0	0	Ventilation Load	0	-1,326	19.32						
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing			0	0			0	Ov/Undr Sizing	-2,212	-2,212	32.22						
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		21	-0.31						
Exhaust Heat		-16	-16	0			0	OA Preheat Diff.		0	0.00						
Sup. Fan Heat			111	1			0	RA Preheat Diff.		0	0.00						
Ret. Fan Heat		0	0	0			0	Additional Reheat		0	0.00						
Duct Heat Pkup		0	0	0			94	System Plenum Heat		-1.37							
Underflr Sup Ht Pkup			0	0			0	Underflr Sup Ht Pkup		0	0.00						
Supply Air Leakage		0	0	0			0	Supply Air Leakage		0	0.00						
Grand Total ==>	8,851	314	9,463	100.00	8,251	100.00	0	Grand Total ==>	-5,446	-6,864	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	375	225
Terminal	375	225
Main Fan	375	112
Sec Fan	0	112
Nom Vent	25	25
AHU Vent	25	25
Infil	0	21
MinStop/Rh	112	112
Return	375	134
Exhaust	25	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.6	7.3
cfm/ft²	2.34	1.41
cfm/ton	475.43	
ft²/ton	202.88	
Btu/hr-ft²	59.15	-50.67
No. People	3.0	18.8/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.8	9.5	8.7	375	75.5	62.0	62.6	54.7	53.3	59.2	Floor	160		Main Htg	-7.1	225	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	25	19.0	54.7
											ExFlr	0		Reheat	-1.6	112	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	230	81	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-8.1			
Total	0.8	9.5																

Room Checksums

By MacDonald-Miller Facility Solutions

129 - Office C4

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Ret/OA	77.2	37.0
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	0	0	-848	-848	29.18	-848	-848			
Sub Total ==>	0	0	0	0	0	0	0	0	0	-848	-848	29.18	-848	-848			
Internal Loads					Internal Loads					Internal Loads							
Lights	258	64	322	9	258	10	0	0	0	0	0	0.00	0	0			
People	1,350	0	1,350	36	750	29	0	0	0	0	0	0.00	0	0			
Misc	1,536	0	1,536	41	1,536	60	0	0	0	0	0	0.00	0	0			
Sub Total ==>	3,144	64	3,208	87	2,544	99	0	0	0	0	0	0.00	0	0			
Ceiling Load	23	-23	0	0	25	1	0	0	0	-16	0	0.00	-16	0			
Ventilation Load	0	0	475	13	0	0	0	0	0	0	-1,190	40.95	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	-831	-831	28.59	-831	-831			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	17	-0.59	0	0			
Exhaust Heat	0	-15	-15	0	0	0	0	0	0	0	0	0.00	0	0			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	0	-55	1.88	0	0			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Grand Total ==>	3,166	27	3,703	100.00	2,568	100.00	0	0	0	-1,695	-2,907	100.00	-1,695	-2,907			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg				
ton	MBh	cfm	°F	°F	°F	°F			ft² (%)	MBh	MBh	cfm	°F	°F				
Main Clg	0.3	3.7	2.8	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	118	-2.2	70	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	-0.9	22	19.0	54.7		
											ExFlr	0	-0.5	35	54.7	68.0		
											Roof	0	0.0	0	0.0	0.0		
											Wall	0	0.0	0	0.0	0.0		
											Ext Door	0	0.0	0	0.0	0.0		
Total	0.3	3.7									Total	-3.1						

Room Checksums

By MacDonald-Miller Facility Solutions

130 - Office C3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design			Cooling			Heating
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19			SADB			Ra Plenum
										Return			Ret/OA
										Fn MtrTD			Fn BldTD
										Fn Frict			

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	22	22
AHU Vent	22	22
Infil	0	16
MinStop/Rh	35	35
Return	117	51
Exhaust	22	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.9	21.0
cfm/ft²	0.99	0.59
cfm/ton	378.18	
ft²/ton	382.37	
Btu/hr-ft²	31.38	-26.19
No. People	3.0	25.4/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg				
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft² (%)	MBh	cfm	°F	°F	°F				
Main Clg	0.3	3.7	2.8	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	-2.2	70	61.2	90.0			
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0.0	0	0.0	0.0			
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	-0.9	22	19.0	54.7			
											ExFlr	-0.5	35	54.7	68.0			
											Roof	0.0	0	0.0	0.0			
											Wall	0.0	0	0.0	0.0			
											Ext Door	0.0	0	0.0	0.0			
Total	0.3	3.7									Total	-3.1						

Room Checksums

By MacDonald-Miller Facility Solutions

131 - Future Office 1

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 10					Mo/Hr: 6 / 10					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 75 / 64 / 73					OADB: 75					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	5,022	0	5,022	53	5,022	61	0	Glass Solar	0	0	0	0.00			Ret/OA	75.6	67.6
Glass/Door Cond	-52	0	-52	-1	-52	-1	0	Glass/Door Cond	-1,545	-1,545	22.51				Fn MtrTD	75.5	57.0
Wall Cond	617	272	888	9	617	7	0	Wall Cond	-517	-745	10.86				Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00				Fn Frict	0.1	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0.00					0.2	0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	Adjacent Floor	0.00	0.00	0.00						
Infiltration	0	0	0	0	0	0	0	Infiltration	-1,150	-1,150	16.76						
Sub Total ==>	5,587	272	5,858	62	5,587	68		Sub Total ==>	-3,213	-3,441	50.13						
Internal Loads					Internal Loads												
Lights	349	87	437	5	349	4	0	Lights	0	0	0.00						
People	1,350	0	1,350	14	750	9	0	People	0	0	0.00						
Misc	1,536	0	1,536	16	1,536	19	0	Misc	0	0	0.00						
Sub Total ==>	3,235	87	3,323	35	2,635	32		Sub Total ==>	0	0	0.00						
Ceiling Load	29	-29	0	0	29	0		Ceiling Load	-21	0	0.00						
Ventilation Load	0	0	187	2	0	0		Ventilation Load	0	-1,326	19.32						
Adj Air Trans Heat	0		0	0	0	0		Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-2,212	-2,212	32.22						
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat		21	-0.31						
Exhaust Heat		-16	-16	0				OA Preheat Diff.		0	0.00						
Sup. Fan Heat			111	1				RA Preheat Diff.		0	0.00						
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00						
Duct Heat Pkup		0	0	0				System Plenum Heat		94	-1.37						
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00						
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00						
Grand Total ==>	8,851	314	9,463	100.00	8,251	100.00		Grand Total ==>	-5,446	-6,864	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	375	225
Terminal	375	225
Main Fan	375	112
Sec Fan	0	112
Nom Vent	25	25
AHU Vent	25	25
Infil	0	21
MinStop/Rh	112	112
Return	375	134
Exhaust	25	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.6	7.3
cfm/ft²	2.34	1.41
cfm/ton	475.43	
ft²/ton	202.88	
Btu/hr-ft²	59.15	-50.67
No. People	3.0	18.8/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.8	9.5	8.7	375	75.5	62.0	62.6	54.7	53.3	59.2	Floor	160		Main Htg	-7.1	225	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	25	19.0	54.7
											ExFlr	0		Reheat	-1.6	112	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	230	81	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-8.1			
Total	0.8	9.5																

Room Checksums

By MacDonald-Miller Facility Solutions

132 - Office B16

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 10					Mo/Hr: 7 / 10			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 75 / 64 / 73					OADB: 75			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	75.5
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0
Wall Cond	1,030	255	1,285	27	1,032	28	28.72	Wall Cond	-864	-1,078	28.72	Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0	0.00	Partition/Door	0	0	0.00	Fn Frict	0.2
Floor	0	0	0	0	0.00	0	0.00	Floor	0	0	0.00		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		
Infiltration	0	0	0	0	0	0	0	Infiltration	-1,078	-1,078	28.73		
Sub Total ==>	1,030	255	1,285	27	1,032	28	28.72	Sub Total ==>	-1,942	-2,156	57.45		
Internal Loads					Internal Loads			Internal Loads					
Lights	328	82	410	9	328	9	0.00	Lights	0	0	0.00		
People	1,350	0	1,350	28	750	20	0.00	People	0	0	0.00		
Misc	1,536	0	1,536	32	1,536	42	0.00	Misc	0	0	0.00		
Sub Total ==>	3,214	82	3,295	69	2,614	71	0.00	Sub Total ==>	0	0	0.00		
Ceiling Load	27	-27	0	0	27	1	0.00	Ceiling Load	-20	0	0.00		
Ventilation Load	0	0	182	4	0	0	34.48	Ventilation Load	0	-1,294	34.48		
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0		
Dehumid. Ov Sizing			0	0			12.32	Ov/Undr Sizing	-463	-463	12.32		
Ov/Undr Sizing	0	0	0	0	0	0	-0.54	Exhaust Heat		20	-0.54		
Exhaust Heat		-15	-15	0			0.00	OA Preheat Diff.		0	0.00		
Sup. Fan Heat			49	1			0.00	RA Preheat Diff.		0	0.00		
Ret. Fan Heat		0	0	0			0.00	Additional Reheat		0	0.00		
Duct Heat Pkup		0	0	0			-3.71	System Plenum Heat		139	-3.71		
Underflr Sup Ht Pkup		0	0	0			0.00	Underflr Sup Ht Pkup		0	0.00		
Supply Air Leakage		0	0	0			0.00	Supply Air Leakage		0	0.00		
Grand Total ==>	4,271	295	4,797	100.00	3,673	100.00	Grand Total ==>	-2,424	-3,753	100.00			

TEMPERATURES		
	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	75.5	44.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.1	0.0
Fn Frict	0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	167	100
Terminal	167	100
Main Fan	167	50
Sec Fan	0	50
Nom Vent	24	24
AHU Vent	24	24
Infil	0	20
MinStop/Rh	50	50
Return	167	70
Exhaust	24	44
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	14.4	16.0
cfm/ft²	1.11	0.67
cfm/ton	417.52	
ft²/ton	375.23	
Btu/hr-ft²	31.98	-27.48
No. People	3.0	20.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.4	4.8	4.0	167	75.5	62.2	63.5	54.7	52.2	54.9	Floor	150		Main Htg	-3.2	100	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	24	19.0	54.7
											ExFlr	0		Reheat	-0.7	50	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	216	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-4.1			
Total	0.4	4.8																

Room Checksums

By MacDonald-Miller Facility Solutions

133 - Office B15

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 10					Mo/Hr: 7 / 10			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 75 / 64 / 73					OADB: 75			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			75.5	44.3
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	171	103
Terminal	171	103
Main Fan	171	51
Sec Fan	0	51
Nom Vent	25	25
AHU Vent	25	25
Infil	0	21
MinStop/Rh	51	51
Return	171	73
Exhaust	25	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	14.4	16.0
cfm/ft²	1.07	0.64
cfm/ton	417.72	
ft²/ton	390.79	
Btu/hr-ft²	30.71	-26.40
No. People	3.0	18.8/1000 ft²

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.4	4.9	4.1	171	75.5	62.2	63.5	54.7	52.2	54.9	Floor	160		Main Htg	-3.3	103	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	25	19.0	54.7		
											ExFlr	0		Reheat	-0.8	51	54.7	68.0		
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	230	0	0	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	0	Total	-4.2				
Total	0.4	4.9																		

Room Checksums

By MacDonald-Miller Facility Solutions

135 - Office C2

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES							
Peaked at Time:		Mo/Hr: 6 / 14		Mo/Hr: 7 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design											
Outside Air:		OADB/WB/HR: 84 / 68 / 79		OADB: 84		OADB: 19		OADB: 19											
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent											
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Space Sens	Tot Sens	Of Total											
Envelope Loads				Envelope Loads															
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00											
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00											
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00											
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00											
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00											
Wall Cond	0	0	0	0	0	Wall Cond	0	0.00											
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00											
Floor	0	0	0	0.00	0	Floor	0	0.00											
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00											
Infiltration	0	0	0	0	0	Infiltration	-899	30.55											
<i>Sub Total ==></i>	0	0	0	0	0	<i>Sub Total ==></i>	-899	30.55											
Internal Loads				Internal Loads															
Lights	273	68	341	9	11	Lights	0	0.00											
People	1,350	0	1,350	36	29	People	0	0.00											
Misc	1,536	0	1,536	41	59	Misc	0	0.00											
<i>Sub Total ==></i>	3,159	68	3,227	86	99	<i>Sub Total ==></i>	0	0.00											
Ceiling Load	24	-24	0	0	1	Ceiling Load	-16	0.00											
Ventilation Load	0	0	484	13	0	Ventilation Load	0	41.25											
Adj Air Trans Heat	0		0	0	0	Adj Air Trans Heat	0	0											
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	-791	26.90											
Ov/Undr Sizing	0		0	0	0	Exhaust Heat	18	-0.61											
Exhaust Heat		-15	-15	0		OA Preheat Diff.	0	0.00											
Sup. Fan Heat			35	1		RA Preheat Diff.	0	0.00											
Ret. Fan Heat		0	0	0		Additional Reheat	0	0.00											
Duct Heat Pkup		0	0	0		System Plenum Heat	-56	1.91											
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0	0.00											
Supply Air Leakage		0	0	0		Supply Air Leakage	0	0.00											
Grand Total ==>	3,183	29	3,731	100.00	2,585	Grand Total ==>	-1,706	100.00											

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	77.2	36.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.1	0.0
Fn Frict	0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	23	23
AHU Vent	23	23
Infil	0	17
MinStop/Rh	35	35
Return	117	52
Exhaust	23	39
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.2	21.3
cfm/ft²	0.94	0.56
cfm/ton	377.78	
ft²/ton	402.00	
Btu/hr-ft²	29.85	-24.97
No. People	3.0	24.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.2	54.7	52.2	54.9	Floor	125			Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-0.9	23	19.0	54.7
											ExFlr	0			Reheat	-0.5	35	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
Ext Door												0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

136 - Office C1

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design						
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19						
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads			Envelope Loads						
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00			SADB	55.0 90.0
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00			Ra Plenum	75.6 67.6
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00			Return	75.6 67.6
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00			Ret/OA	77.2 36.6
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00			Fn MtrTD	0.0 0.0
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00			Fn BldTD	0.1 0.0
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00			Fn Frict	0.2 0.0
Floor	0		0	0	0.00	0	Floor	0	0	0.00				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-899	-899	30.55				
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-899	-899	30.55				
Internal Loads					Internal Loads			Internal Loads						
Lights	273	68	341	9	273	11	Lights	0	0	0.00				
People	1,350	0	1,350	36	750	29	People	0	0	0.00				
Misc	1,536	0	1,536	41	1,536	59	Misc	0	0	0.00				
Sub Total ==>	3,159	68	3,227	86	2,559	99	Sub Total ==>	0	0	0.00				
Ceiling Load	24	-24	0	0	26	1	Ceiling Load	-16	0	0.00				
Ventilation Load	0	0	484	13	0	0	Ventilation Load	0	-1,213	41.25				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-791	-791	26.90				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		18	-0.61				
Exhaust Heat		-15	-15	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			35	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-56	1.91				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	3,183	29	3,731	100.00	2,585	100.00	Grand Total ==>	-1,706	-2,941	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	23	23
AHU Vent	23	23
Infil	0	17
MinStop/Rh	35	35
Return	117	52
Exhaust	23	39
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.2	21.3
cfm/ft²	0.94	0.56
cfm/ton	377.78	
ft²/ton	402.00	
Btu/hr·ft²	29.85	-24.97
No. People	3.0	24.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.2	54.7	52.2	54.9	Floor	125		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	23	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

137 - Corridor 9 North

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	95.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	77.0
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.1
Floor	0	0	0	0	0.00	0		-307	-307	17.04			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-1,006	-1,006	55.87			0.0
Sub Total ==>	0	0	0	0	0	0		-1,313	-1,313	72.91			0.0
Internal Loads					Internal Loads			Internal Loads					
Lights	306	76	382	30	306	29		0	0	0.00		AIRFLOWS	
People	0	0	0	0	0	0		0	0	0.00		Cooling	Heating
Misc	717	0	717	56	717	68		0	0	0.00		Diffuser	48
Sub Total ==>	1,023	76	1,099	85	1,023	97		0	0	0.00		Terminal	48
Ceiling Load	27	-27	0	0	29	3		-18	0	0.00		Main Fan	14
Ventilation Load	0	0	181	14	0	0		0	-453	25.14		Sec Fan	30
Adj Air Trans Heat	0		0	0	0	0		0	0	0		Nom Vent	8
Dehumid. Ov Sizing			0	0				0	0	0.00		AHU Vent	8
Ov/Undr Sizing	0		0	0	0	0		0	12	-0.69		Infil	19
Exhaust Heat		-6	-6	0				0	0	0.00		MinStop/Rh	14
Sup. Fan Heat			14	1				0	0	0.00		Return	33
Ret. Fan Heat		0	0	0				0	0	0.00		Exhaust	27
Duct Heat Pkup		0	0	0				-47	2.64			Rm Exh	0
Underflr Sup Ht Pkup		0	0	0				0	0	0.00		Auxiliary	0
Supply Air Leakage		0	0	0				0	0	0.00		Leakage Dwn	0
Grand Total ==>	1,049	44	1,288	100.00	1,052	100.00		-1,332	-1,801	100.00		Leakage Ups	0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.1	1.3	1.2	48	77.0	63.0	64.9	54.7	53.8	61.3	Floor	140		Main Htg	-1.6	45	63.5	95.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.3	8	19.0	54.7	
											ExFlr	12		Reheat	-0.2	14	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-1.9			
Total	0.1	1.3																	

Room Checksums

By MacDonald-Miller Facility Solutions

137 - Corridor 9 South

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design							
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19							
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent			Cooling	Heating
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads					Envelope Loads				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Skylite Solar			
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Skylite Cond			
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Roof Cond			
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Glass Solar			
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Glass/Door Cond			
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Wall Cond			
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Partition/Door			
Floor	0		0	0	0.00	0	Floor	-307	-307	10.71	Floor			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	Adjacent Floor			
Infiltration	0		0	0	0	0	Infiltration	-1,725	-1,725	60.21	Infiltration			
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-2,032	-2,032	70.92	Sub Total ==>			
Internal Loads					Internal Loads					Internal Loads				
Lights	524	131	655	30	524	29	Lights	0	0	0.00	Lights			
People	0	0	0	0	0	0	People	0	0	0.00	People			
Misc	1,229	0	1,229	56	1,229	68	Misc	0	0	0.00	Misc			
Sub Total ==>	1,753	131	1,884	85	1,753	97	Sub Total ==>	0	0	0.00	Sub Total ==>			
Ceiling Load	46	-46	0	0	50	3	Ceiling Load	-32	0	0.00	Ceiling Load			
Ventilation Load	0	0	310	14	0	0	Ventilation Load	0	-776	27.10	Ventilation Load			
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0	Adj Air Trans Heat			
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00	Ov/Undr Sizing			
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		21	-0.74	Exhaust Heat			
Exhaust Heat		-10	-10	0			OA Preheat Diff.		0	0.00	OA Preheat Diff.			
Sup. Fan Heat			24	1			RA Preheat Diff.		0	0.00	RA Preheat Diff.			
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00	Additional Reheat			
Duct Heat Pkup		0	0	0			System Plenum Heat		-78	2.72	System Plenum Heat			
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00	Underflr Sup Ht Pkup			
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00	Supply Air Leakage			
Grand Total ==>	1,799	75	2,209	100.00	1,803	100.00	Grand Total ==>	-2,064	-2,865	100.00	Grand Total ==>			

AIRFLOWS		
	Cooling	Heating
Diffuser	82	69
Terminal	82	69
Main Fan	82	25
Sec Fan	0	45
Nom Vent	14	14
AHU Vent	14	14
Infil	0	32
MinStop/Rh	25	25
Return	82	57
Exhaust	14	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	15.3
cfm/ft²	0.34	0.29
cfm/ton	445.21	
ft²/ton	1,303.98	
Btu/hr-ft²	9.20	-12.54
No. People	0.0	0.0/1000 ft²

AIRFLOWS		
	Cooling	Heating
Diffuser	82	69
Terminal	82	69
Main Fan	82	25
Sec Fan	0	45
Nom Vent	14	14
AHU Vent	14	14
Infil	0	32
MinStop/Rh	25	25
Return	82	57
Exhaust	14	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	15.3
cfm/ft²	0.34	0.29
cfm/ton	445.21	
ft²/ton	1,303.98	
Btu/hr-ft²	9.20	-12.54
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.2	2.2	2.0	82	77.0	63.0	64.9	54.7	53.8	61.3	Floor	240		Main Htg	-2.4	69	63.0	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.6	14	19.0	54.7
											ExFlr	12		Reheat	-0.4	25	54.7	68.0
Total	0.2	2.2									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.0			

Room Checksums

By MacDonald-Miller Facility Solutions

138 - Open Meeting Area

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES			
Peaked at Time: Mo/Hr: 6 / 11					Mo/Hr: 6 / 10			Mo/Hr: Heating Design				Cooling			Heating
Outside Air: OADB/WB/HR: 78 / 65 / 76					OADB: 75			OADB: 19				SADB			90.0
												Ra Plenum			67.6
												Return			67.6
												Ret/OA			52.0
												Fn MtrTD			0.0
												Fn BldTD			0.0
												Fn Frict			0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	1,233	740
Terminal	1,233	740
Main Fan	1,233	370
Sec Fan	0	370
Nom Vent	119	119
AHU Vent	119	119
Infil	0	64
MinStop/Rh	370	370
Return	1,233	434
Exhaust	119	183
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.6	10.7
cfm/ft²	2.57	1.54
cfm/ton	452.84	
ft²/ton	176.31	
Btu/hr-ft²	68.06	-58.64
No. People	18.0	37.5/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	2.7	32.7	27.9	1,199	75.8	62.2	63.2	54.7	52.8	57.3	Floor	480		Main Htg	-23.5	740	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-4.7	119	19.0	54.7	
											ExFlr	0		Reheat	-5.4	370	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	692	161	23	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-28.2			
Total	2.7	32.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

139 - Office B9

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.2	35.8
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.8	2.9	119	77.2	63.1	65.2	54.7	52.2	55.0	Floor	140			Main Htg	-2.3	71	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-0.9	23	19.0	54.7
											ExFlr	0			Reheat	-0.5	36	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.2			
Total	0.3	3.8																	

Room Checksums

By MacDonald-Miller Facility Solutions

140 - Office B8

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 19					Mo/Hr: Heating Design					Cooling Heating		
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 78					OADB: 19					SADB	55.0	90.0
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent			Ra Plenum	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total			Return	75.6	67.6
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Btu/h	Btu/h	(%)			Ret/OA	77.1	37.8
Envelope Loads					Envelope Loads					Envelope Loads					Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn BldTD	0.1	0.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	Fn Frict	0.2	0.0
Roof Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Wall Cond	192	47	239	6	228	8	0	0	0	-504	-629	19.56	0	0			
Partition/Door	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Floor	0	0	0	0	0.00	0	0	0	0	0	0	0.00	0	0			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0.00	0	0			
Infiltration	0	0	0	0	0	0	0	0	0	-1,078	-1,078	33.55	0	0			
Sub Total ==>	192	47	239	6	228	8	0	0	0	-1,582	-1,707	53.12	0	0			
Internal Loads					Internal Loads					Internal Loads							
Lights	328	82	410	10	328	11	0	0	0	0	0	0.00	0	0			
People	1,350	0	1,350	33	750	26	0	0	0	0	0	0.00	0	0			
Misc	1,536	0	1,536	38	1,536	53	0	0	0	0	0	0.00	0	0			
Sub Total ==>	3,214	82	3,295	81	2,614	91	0	0	0	0	0	0.00	0	0			
Ceiling Load	29	-29	0	0	30	1	0	0	0	-20	0	0.00	0	0			
Ventilation Load	0	0	517	13	0	0	0	0	0	0	-1,294	40.26	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	-293	-293	9.12	0	0			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	0	0	20	-0.63	0	0			
Exhaust Heat	0	-16	-16	0	0	0	0	0	0	0	0	0.00	0	0			
Sup. Fan Heat	0	0	38	1	0	0	0	0	0	0	0	0.00	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Duct Heat Pkup	0	0	0	0	0	0	0	0	0	60	-1.87	0	0	0			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0			
Grand Total ==>	3,435	84	4,073	100.00	2,871	100.00	0	0	0	-1,895	-3,214	100.00	0	0			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg				
ton MBh	MBh	cfm	°F °F	gr/lb	°F °F	gr/lb			ft² (%)	MBh	MBh	cfm	°F	°F				
Main Clg	0.3	4.1	3.2	129	77.1 63.1	65.1	54.7	52.2	55.0	Floor	150	-2.5	78	61.2	90.0			
Aux Clg	0.0	0.0	0.0	0	0.0 0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0			
Opt Vent	0.0	0.0	0.0	0	0.0 0.0	0.0	0.0	0.0	0.0	Int Door	1	-0.9	24	19.0	54.7			
										ExFlr	0	-0.6	39	54.7	68.0			
										Roof	0	0.0	0	0.0	0.0			
										Wall	126	0.0	0	0.0	0.0			
										Ext Door	0	0.0	0	0.0	0.0			
Total	0.3	4.1								Total	-3.4							

Room Checksums

By MacDonald-Miller Facility Solutions

141 - Office B7

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14				Mo/Hr: 6 / 19				Mo/Hr: Heating Design				Cooling Heating		
Outside Air: OADB/WB/HR: 84 / 68 / 79				OADB: 78				OADB: 19				SADB	55.0	90.8
	Space	Plenum	Net	Percent		Space	Percent		Space Peak	Coil Peak	Percent	Ra Plenum	75.6	67.6
	Sens. + Lat.	Sens. + Lat.	Total	Of Total		Sensible	Of Total		Space Sens	Tot Sens	Of Total	Return	75.6	67.6
	Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)	Ret/OA	77.0	41.5
Envelope Loads						Envelope Loads						Fn MtrTD	0.0	0.0
Skylite Solar	0	0	0	0		0	0		0	0	0.00	Fn BldTD	0.1	0.0
Skylite Cond	0	0	0	0		0	0		0	0	0.00	Fn Frict	0.2	0.0
Roof Cond	0	0	0	0		0	0		0	0	0.00			
Glass Solar	216	0	216	5		318	10		0	0	0.00			
Glass/Door Cond	74	0	74	2		46	1		-538	-538	15.05			
Wall Cond	234	69	303	7		276	8		-612	-798	22.35			
Partition/Door	0	0	0	0		0	0		0	0	0.00			
Floor	0	0	0	0		0.00	0		0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0		0	0		-1,078	-1,078	30.19			
Sub Total ==>	523	69	593	13		640	19		-2,228	-2,414	67.59			
Internal Loads						Internal Loads								
Lights	328	82	410	9		328	10		0	0	0.00			
People	1,350	0	1,350	30		750	23		0	0	0.00			
Misc	1,536	0	1,536	35		1,536	47		0	0	0.00			
Sub Total ==>	3,214	82	3,295	74		2,614	80		0	0	0.00			
Ceiling Load	29	-29	0	0		30	1		-20	0	0.00			
Ventilation Load	0	0	517	12		0	0		0	-1,294	36.23			
Adj Air Trans Heat	0	0	0	0		0	0		0	0	0			
Dehumid. Ov Sizing	0	0	0	0		0	0		0	0	0.00			
Ov/Undr Sizing	0	0	0	0		0	0		0	20	-0.56			
Exhaust Heat	0	-16	-16	0		0	0		0	0	0.00			
Sup. Fan Heat	0	0	43	1		0	0		0	0	0.00			
Ret. Fan Heat	0	0	0	0		0	0		0	0	0.00			
Duct Heat Pkup	0	0	0	0		0	0		0	116	-3.26			
Underflr Sup Ht Pkup	0	0	0	0		0	0		0	0	0.00			
Supply Air Leakage	0	0	0	0		0	0		0	0	0.00			
Grand Total ==>	3,766	107	4,432	100.00		3,284	100.00		-2,247	-3,571	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.4	4.4	3.6	144	77.0	63.0	64.7	54.7	52.4	55.6	Floor	150		Main Htg	-2.9	90	61.2	90.8	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	24	19.0	54.7	
											ExFlr	0		Reheat	-0.7	45	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	188	28	15	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.9			
Total	0.4	4.4																	

Room Checksums

By MacDonald-Miller Facility Solutions

142 - Corridor 8

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design					Cooling		Heating
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19					SADB	55.0	95.0
												Ra Plenum	75.6	67.6
												Return	75.6	67.6
												Ret/OA	77.0	39.1
												Fn MtrTD	0.0	0.0
												Fn BldTD	0.1	0.0
												Fn Frict	0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	53	49
Terminal	53	49
Main Fan	53	16
Sec Fan	0	33
Nom Vent	9	9
AHU Vent	9	9
Infil	0	21
MinStop/Rh	16	16
Return	53	37
Exhaust	9	30
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	14.5
cfm/ft²	0.34	0.31
cfm/ton	445.21	
ft²/ton	1,303.98	
Btu/hr-ft²	9.20	-13.24
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.1	1.4	1.3	53	77.0	63.0	64.9	54.7	53.8	61.3	Floor	156		Main Htg	-1.7	49	63.4	95.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.4	9	19.0	54.7	
											ExFlr	12		Reheat	-0.2	16	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-2.1			
Total	0.1	1.4																	

Room Checksums

By MacDonald-Miller Facility Solutions

143 - Office B10

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0	0.00			Ret/OA	77.2	36.8
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00			Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0	0.00			Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0	0.00			Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0	0.00					
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00					
Infiltration	0	0	0	0	0	0	0	Infiltration	-863	-863	29.57						
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-863	-863	29.57						
Internal Loads					Internal Loads												
Lights	262	66	328	9	262	10	10	Lights	0	0	0	0.00					
People	1,350	0	1,350	36	750	29	29	People	0	0	0	0.00					
Misc	1,536	0	1,536	41	1,536	60	60	Misc	0	0	0	0.00					
Sub Total ==>	3,148	66	3,214	87	2,548	99	99	Sub Total ==>	0	0	0	0.00					
Ceiling Load	23	-23	0	0	25	1	1	Ceiling Load	-16	0	0	0.00					
Ventilation Load	0	0	478	13	0	0	0	Ventilation Load	0	-1,197	41.03						
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-820	-820	28.10						
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		17	-0.60						
Exhaust Heat		-15	-15	0				OA Preheat Diff.		0	0.00						
Sup. Fan Heat			35	1				RA Preheat Diff.		0	0.00						
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00						
Duct Heat Pkup		0	0	0				System Plenum Heat		-55	1.89						
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00						
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00						
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00	100.00	Grand Total ==>	-1,698	-2,917	100.00						

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

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COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design					Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19					SADB			55.0	90.0
															Ra Plenum			75.6	67.6
															Return			75.6	67.6
															Ret/OA			77.2	36.8
															Fn MtrTD			0.0	0.0
															Fn BldTD			0.1	0.0
															Fn Frict			0.2	0.0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
Total	0.3	3.7									Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

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COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design				Cooling		Heating	
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19				SADB		90.0	
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Ra Plenum	67.6	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total		Return	67.6	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)		Ret/OA	56.3	
Envelope Loads					Envelope Loads									
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Fn MtrTD	0.0		
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Fn BldTD	0.0		
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Fn Frict	0.0		
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00				
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00				
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00				
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00				
Floor	0		0	0	0.00	0	Floor	0	0	0.00				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	0		0	0	0	0	Infiltration	-899	-899	26.96				
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-899	-899	26.96				
Internal Loads					Internal Loads									
Lights	273	68	341	8	273	7	Lights	0	0	0.00				
People	450	0	450	10	250	6	People	0	0	0.00				
Misc	3,413	0	3,413	76	3,413	86	Misc	0	0	0.00				
Sub Total ==>	4,136	68	4,204	93	3,936	99	Sub Total ==>	0	0	0.00				
Ceiling Load	24	-24	0	0	26	1	Ceiling Load	-16	0	0.00				
Ventilation Load	0	0	269	6	0	0	Ventilation Load	0	-674	20.22				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-1,700	-1,700	51.01				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		13	-0.40				
Exhaust Heat		-8	0	0			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			53	1			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00				
Duct Heat Pkup		0	0	0			System Plenum Heat		-73	2.21				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	4,160	36	4,518	100.00	3,962	100.00	Grand Total ==>	-2,615	-3,333	100.00				

AIRFLOWS		
	Cooling	Heating
Diffuser	180	108
Terminal	180	108
Main Fan	180	54
Sec Fan	0	54
Nom Vent	13	13
AHU Vent	13	13
Infil	0	17
MinStop/Rh	54	54
Return	180	71
Exhaust	13	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.9	7.7
cfm/ft²	1.44	0.86
cfm/ton	478.17	
ft²/ton	331.98	
Btu/hr-ft²	36.15	-31.36
No. People	1.0	8.0/1000 ft²

AIRFLOWS		
	Cooling	Heating
Diffuser	180	108
Terminal	180	108
Main Fan	180	54
Sec Fan	0	54
Nom Vent	13	13
AHU Vent	13	13
Infil	0	17
MinStop/Rh	54	54
Return	180	71
Exhaust	13	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	6.9	7.7
cfm/ft²	1.44	0.86
cfm/ton	478.17	
ft²/ton	331.98	
Btu/hr-ft²	36.15	-31.36
No. People	1.0	8.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.4	4.5	4.2	180	76.2	62.3	63.1	54.7	53.7	60.8	Floor	125		Main Htg	-3.4	108	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.5	13	19.0	54.7	
											ExFlr	0		Reheat	-0.8	54	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.9			
Total	0.4	4.5																	

Room Checksums

By MacDonald-Miller Facility Solutions

147 - Office B12

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	77.2	36.8
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-863	-863	29.57			
Sub Total ==>	0	0	0	0	0	0	0	-863	-863	29.57			
Internal Loads					Internal Loads			Internal Loads					
Lights	262	66	328	9	262	10	10	0	0	0.00			
People	1,350	0	1,350	36	750	29	29	0	0	0.00			
Misc	1,536	0	1,536	41	1,536	60	60	0	0	0.00			
Sub Total ==>	3,148	66	3,214	87	2,548	99	99	0	0	0.00			
Ceiling Load	23	-23	0	0	25	1	1	-16	0	0.00			
Ventilation Load	0	0	478	13	0	0	0	0	-1,197	41.03			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-820	-820	28.10			
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	17	-0.60			
Exhaust Heat	0	-15	-15	0	0	0	0	OA Preheat Diff.	0	0.00			
Sup. Fan Heat	0	0	35	1	0	0	0	RA Preheat Diff.	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	-55	1.89			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00			
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00	100.00	-1,698	-2,917	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	22	22
AHU Vent	22	22
Infil	0	16
MinStop/Rh	35	35
Return	117	51
Exhaust	22	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.0	21.1
cfm/ft²	0.97	0.58
cfm/ton	378.07	
ft²/ton	388.01	
Btu/hr-ft²	30.93	-25.83
No. People	3.0	25.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

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COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.2	36.8
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	22	22
AHU Vent	22	22
Infil	0	16
MinStop/Rh	35	35
Return	117	51
Exhaust	22	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.0	21.1
cfm/ft²	0.97	0.58
cfm/ton	378.07	
ft²/ton	388.01	
Btu/hr-ft²	30.93	-25.83
No. People	3.0	25.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

149 - Corridor 7 East

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 14			Mo/Hr: 7 / 17		Mo/Hr: Heating Design			Cooling		Heating	
Outside Air:		OADB/WB/HR: 84 / 68 / 79			OADB: 84		OADB: 19			SADB		Ra Plenum	
										Return		75.6	
										Ret/OA		39.1	
										Fn MtrTD		0.0	
										Fn BldTD		0.0	
										Fn Frict		0.0	

AIRFLOWS		
	Cooling	Heating
Diffuser	64	56
Terminal	64	56
Main Fan	64	19
Sec Fan	0	37
Nom Vent	11	11
AHU Vent	11	11
Infil	0	25
MinStop/Rh	19	19
Return	64	44
Exhaust	11	36
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	14.8
cfm/ft²	0.34	0.30
cfm/ton	445.21	
ft²/ton	1,303.98	
Btu/hr-ft²	9.20	-12.92
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.1	1.7	1.6	63	77.0	63.0	64.9	54.7	53.8	61.3	Floor	186		Main Htg	-2.0	56	63.2	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.4	11	19.0	54.7
											ExFlr	12		Reheat	-0.3	19	54.7	68.0
Total	0.1	1.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-2.4			

Room Checksums

By MacDonald-Miller Facility Solutions

149 - Corridor 7 North

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00	SADB	55.0	95.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0		0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0		0	0	0.00	Ret/OA	77.0	39.1
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0		0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0		-307	-307	22.84			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0		-697	-697	51.89			
Sub Total ==>	0	0	0	0	0	0		-1,004	-1,004	74.73			
Internal Loads					Internal Loads			Internal Loads					
Lights	212	53	265	30	212	29		0	0	0.00			
People	0	0	0	0	0	0		0	0	0.00			
Misc	497	0	497	56	497	68		0	0	0.00			
Sub Total ==>	708	53	761	85	708	97		0	0	0.00			
Ceiling Load	19	-19	0	0	20	3		-13	0	0.00			
Ventilation Load	0	0	125	14	0	0		0	-314	23.35			
Adj Air Trans Heat	0		0	0	0	0		0	0	0			
Dehumid. Ov Sizing			0	0				0	0	0.00			
Ov/Undr Sizing	0		0	0	0	0		0	9	-0.64			
Exhaust Heat		-4	0	0				0	0	0.00			
Sup. Fan Heat			10	1				0	0	0.00			
Ret. Fan Heat		0	0	0				0	0	0.00			
Duct Heat Pkup		0	0	0				-34	2.56				
Underflr Sup Ht Pkup			0	0				0	0	0.00			
Supply Air Leakage		0	0	0				0	0	0.00			
Grand Total ==>	727	31	893	100.00	729	100.00		-1,017	-1,344	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	33	34
Terminal	33	34
Main Fan	33	10
Sec Fan	0	24
Nom Vent	6	6
AHU Vent	6	6
Infil	0	13
MinStop/Rh	10	10
Return	33	23
Exhaust	6	19
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	13.2
cfm/ft²	0.34	0.35
cfm/ton	445.21	
ft²/ton	1,303.97	
Btu/hr-ft²	9.20	-14.45
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.1	0.9	0.8	33	77.0	63.0	64.9	54.7	53.8	61.3	Floor	97		Main Htg	-1.2	34	63.9	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.2	6	19.0	54.7
											ExFlr	12		Reheat	-0.2	10	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-1.4			
Total	0.1	0.9																

Room Checksums

By MacDonald-Miller Facility Solutions

149 - Corridor 7 West

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00	SADB	55.0	95.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0		0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0		0	0	0.00	Ret/OA	77.0	39.1
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0		0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0		-307	-307	36.38			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0		-359	-359	42.60			
Sub Total ==>	0	0	0	0	0	0		-666	-666	78.98			
Internal Loads								Internal Loads					
Lights	109	27	137	30	109	29		0	0	0.00			
People	0	0	0	0	0	0		0	0	0.00			
Misc	256	0	256	56	256	68		0	0	0.00			
Sub Total ==>	365	27	393	85	365	97		0	0	0.00			
Ceiling Load	10	-10	0	0	10	3		-7	0	0.00			
Ventilation Load	0	0	65	14	0	0		0	-162	19.17			
Adj Air Trans Heat	0		0	0	0	0		0	0	0			
Dehumid. Ov Sizing			0	0				0	0	0.00			
Ov/Undr Sizing	0		0	0	0	0		0	4	-0.52			
Exhaust Heat		-2	-2	0				0	0	0.00			
Sup. Fan Heat			5	1				0	0	0.00			
Ret. Fan Heat		0	0	0				0	0	0.00			
Duct Heat Pkup		0	0	0				-20	2.37				
Underflr Sup Ht Pkup			0	0				0	0	0.00			
Supply Air Leakage		0	0	0				0	0	0.00			
Grand Total ==>	375	16	460	100.00	376	100.00		-673	-844	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	17	23
Terminal	17	23
Main Fan	17	5
Sec Fan	0	18
Nom Vent	3	3
AHU Vent	3	3
Infil	0	7
MinStop/Rh	5	5
Return	17	12
Exhaust	3	10
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	17.6	10.8
cfm/ft²	0.34	0.45
cfm/ton	445.21	
ft²/ton	1,303.96	
Btu/hr-ft²	9.20	-17.47
No. People	0.0	0.0/1000 ft²

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.0	0.5	0.4	17	77.0	63.0	64.9	54.7	53.8	61.3	Floor	50		Main Htg	-0.8	23	64.7	95.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.1	3	19.0	54.7		
											ExFlr	12		Reheat	-0.1	5	54.7	68.0		
											Roof	0	0	Humidif	0.0	0	0.0	0.0		
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0		
											Ext Door	0	0	Total	-0.9					
Total	0.0	0.5																		

Room Checksums

By MacDonald-Miller Facility Solutions

150 - Office B6

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 6 / 19			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 78			OADB: 19				SADB			55.0	90.9
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			76.9	42.7
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

	Cooling	Heating
SADB	55.0	90.9
Ra Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	76.9	42.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.1	0.0
Fn Frict	0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	152	91
Terminal	152	91
Main Fan	152	46
Sec Fan	0	46
Nom Vent	23	23
AHU Vent	23	23
Infil	0	19
MinStop/Rh	46	46
Return	152	64
Exhaust	23	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	15.4	17.1
cfm/ft²	1.09	0.65
cfm/ton	409.15	
ft²/ton	376.03	
Btu/hr-ft²	31.91	-27.91
No. People	3.0	21.4/1000 ft²

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	(%)		Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²			MBh	cfm	°F	°F
Main Clg	0.4	4.5	3.6	146	76.9	62.9	64.6	54.7	52.4	55.8	Floor	140	Main Htg	-3.0	91	61.2	90.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	Preheat	-0.9	23	19.0	54.7
											ExFlr	0	Reheat	-0.7	46	54.7	68.0
											Roof	0	Humidif	0.0	0	0.0	0.0
											Wall	182	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0					
Total	0.4	4.5											Total	-3.9			

Room Checksums

By MacDonald-Miller Facility Solutions

151 - Office B5

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 15					Mo/Hr: 6 / 19			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 77					OADB: 78			OADB: 19				SADB			55.0	95.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			76.9	44.1
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	178	116
Terminal	178	116
Main Fan	178	53
Sec Fan	0	62
Nom Vent	26	26
AHU Vent	26	26
Infil	0	24
MinStop/Rh	53	53
Return	178	77
Exhaust	26	50
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	14.5	15.3
cfm/ft²	0.99	0.64
cfm/ton	419.09	
ft²/ton	423.24	
Btu/hr-ft²	28.35	-29.21
No. People	3.0	16.7/1000 ft²

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	0.4	5.1	4.2	172	76.9	62.8	64.1	54.7	52.6	56.6	Floor	180		Main Htg	-4.2	116	61.6	95.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	26	19.0	54.7		
											ExFlr	0		Reheat	-0.8	53	54.7	68.0		
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	236	83	35	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	0	Total	-5.3				
Total	0.4	5.1																		

Room Checksums

By MacDonald-Miller Facility Solutions

152 - Corridor 6

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	77.0
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0.00	Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2
Floor	0	0	0	0	0.00	0	0	Floor	-307	-307	22.31		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		
Infiltration	0	0	0	0	0	0	0	Infiltration	-719	-719	52.25		
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-1,026	-1,026	74.57		
Internal Loads					Internal Loads			Internal Loads					
Lights	218	55	273	30	218	29	29	Lights	0	0	0.00	AIRFLOWS	
People	0	0	0	0	0	0	0	People	0	0	0.00	Cooling	Heating
Misc	512	0	512	56	512	68	68	Misc	0	0	0.00	Diffuser	34
Sub Total ==>	730	55	785	85	730	97	97	Sub Total ==>	0	0	0.00	Terminal	34
Ceiling Load	19	-19	0	0	21	3	3	Ceiling Load	-13	0	0.00	Main Fan	34
Ventilation Load	0	0	129	14	0	0	0	Ventilation Load	0	-324	23.51	Sec Fan	0
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	6
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	0	0	0.00	AHU Vent	6
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat	9	-0.64		Infil	0
Exhaust Heat		-4	-4	0				OA Preheat Diff.	0	0.00		MinStop/Rh	10
Sup. Fan Heat			10	1				RA Preheat Diff.	0	0.00		Return	34
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Exhaust	6
Duct Heat Pkup		0	0	0				System Plenum Heat	-35	2.56		Rm Exh	0
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Auxiliary	0
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Dwn	0
Grand Total ==>	750	31	920	100.00	751	100.00	100.00	Grand Total ==>	-1,039	-1,376	100.00	Leakage Ups	0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.1	0.9	0.9	34	77.0	63.0	64.9	54.7	53.8	61.3	Floor	100		Main Htg	-1.2	35	63.8	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.2	6	19.0	54.7
											ExFlr	12		Reheat	-0.2	10	54.7	68.0
Total	0.1	0.9									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-1.4			

Room Checksums

By MacDonald-Miller Facility Solutions

154 - Open Collab Area

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0		0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0		0	0	0.00	Ret/OA	77.2	35.8
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0		0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0		0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0		-6,923	-6,923	42.03			
Sub Total ==>	0	0	0	0	0	0		-6,923	-6,923	42.03			
Internal Loads					Internal Loads			Internal Loads					
Lights	2,104	526	2,629	13	2,104	15		0	0	0.00			
People	6,300	0	6,300	31	3,500	24		0	0	0.00			
Misc	8,533	0	8,533	42	8,533	60		0	0	0.00			
Sub Total ==>	16,936	526	17,462	86	14,136	99		0	0	0.00			
Ceiling Load	185	-185	0	0	202	1		-127	0	0.00			
Ventilation Load	0	0	2,751	14	0	0		0	-6,889	41.82			
Adj Air Trans Heat	0		0	0	0	0		0	0	0			
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-2,413	-2,413	14.65		
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat		117	-0.71		
Exhaust Heat		-85	-85	0				OA Preheat Diff.		0	0.00		
Sup. Fan Heat			193	1				RA Preheat Diff.		0	0.00		
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00		
Duct Heat Pkup		0	0	0				System Plenum Heat		-364	2.21		
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00		
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00		
Grand Total ==>	17,121	256	20,320	100.00	14,338	100.00		Grand Total ==>	-9,463	-16,473	100.00		

AIRFLOWS		
	Cooling	Heating
Diffuser	652	391
Terminal	652	391
Main Fan	652	195
Sec Fan	0	195
Nom Vent	128	128
AHU Vent	128	128
Infil	0	128
MinStop/Rh	195	195
Return	652	324
Exhaust	128	256
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.6	21.8
cfm/ft²	0.68	0.41
cfm/ton	384.75	
ft²/ton	568.69	
Btu/hr-ft²	21.10	-18.10
No. People	14.0	14.5/1000 ft²

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F			
Main Clg	1.7	20.3	16.0	651	77.2	63.1	65.2	54.7	52.4	55.9	Floor	963		Main Htg	-12.4	391	61.2	90.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-5.0	128	19.0	54.7		
											ExFlr	0		Reheat	-2.9	195	54.7	68.0		
											Roof	0	0	Humidif	0.0	0	0.0	0.0		
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0		
											Ext Door	0	0	Total	-17.4					
Total	1.7	20.3																		

Room Checksums

By MacDonald-Miller Facility Solutions

155 - Office B3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design						
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19						
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Cooling	Heating	
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads			Envelope Loads				SADB		
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	Skylite Cond	55.0	90.0	
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Roof Cond	75.6	67.6	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00	Glass Solar	75.6	67.6	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00	Glass/Door Cond	77.2	36.8	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Wall Cond	0.0	0.0	
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00	Partition/Door	0.1	0.0	
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00	Floor	0.2	0.0	
Floor	0		0	0	0.00	0	Floor	0	0	0.00	Adjacent Floor			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	Infiltration			
Infiltration	0		0	0	0	0	Infiltration	-863	-863	29.57	Sub Total ==>			
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	-863	-863	29.57				
Internal Loads					Internal Loads			Internal Loads				AIRFLOWS		
Lights	262	66	328	9	262	10	Lights	0	0	0.00	Lights	Cooling	Heating	
People	1,350	0	1,350	36	750	29	People	0	0	0.00	People	117	70	
Misc	1,536	0	1,536	41	1,536	60	Misc	0	0	0.00	Terminal	117	70	
Sub Total ==>	3,148	66	3,214	87	2,548	99	Sub Total ==>	0	0	0.00	Main Fan	117	35	
											Sec Fan	0	35	
Ceiling Load	23	-23	0	0	25	1	Ceiling Load	-16	0	0.00	Nom Vent	22	22	
Ventilation Load	0	0	478	13	0	0	Ventilation Load	0	-1,197	41.03	AHU Vent	22	22	
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0	Infil	0	16	
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-820	-820	28.10	MinStop/Rh	35	35	
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		17	-0.60	Return	117	51	
Exhaust Heat		-15	-15	0			OA Preheat Diff.		0	0.00	Exhaust	22	38	
Sup. Fan Heat			35	1			RA Preheat Diff.		0	0.00	Rm Exh	0	0	
Ret. Fan Heat		0	0	0			Additional Reheat		0	0.00	Auxiliary	0	0	
Duct Heat Pkup		0	0	0			System Plenum Heat		-55	1.89	Leakage Dwn	0	0	
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00	Leakage Ups	0	0	
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00	Grand Total ==>	-1,698	-2,917	100.00	ENGINEERING CKS			
											% OA	Cooling	Heating	
											cfm/ft²	19.0	21.1	
											cfm/ton	0.97	0.58	
											ft²/ton	378.07		
											Btu/hr-ft²	388.01		
												30.93	-25.83	
											No. People	3.0	25.0/1000 ft²	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	MBh	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.3	3.7	2.9	117	77.2 63.1	65.1	54.7 52.2	54.9		Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0 0.0	0.0	0.0 0.0	0.0		Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0 0.0	0.0	0.0 0.0	0.0		Int Door	1		Preheat	-0.9	22	19.0	54.7
										ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7								Roof	0	0	Humidif	0.0	0	0.0	0.0
										Wall	0	0	Opt Vent	0.0	0	0.0	0.0
										Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

156 - Office B4

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK				TEMPERATURES				
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design				Cooling			Heating	
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19				SADB			55.0	90.0
												Ra Plenum			75.6	67.6
												Return			75.6	67.6
												Ret/OA			77.2	36.8
												Fn MtrTD			0.0	0.0
												Fn BldTD			0.1	0.0
												Fn Frict			0.2	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	22	22
AHU Vent	22	22
Infil	0	16
MinStop/Rh	35	35
Return	117	51
Exhaust	22	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.0	21.1
cfm/ft²	0.97	0.58
cfm/ton	378.07	
ft²/ton	388.01	
Btu/hr-ft²	30.93	-25.83
No. People	3.0	25.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

157 - Office B1

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	90.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	77.2
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.1
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-863	-863	29.57			0.0
Sub Total ==>	0	0	0	0	0	0		-863	-863	29.57			0.0
Internal Loads								Internal Loads					
Lights	262	66	328	9	262	10		0	0	0.00		AIRFLOWS	
People	1,350	0	1,350	36	750	29		0	0	0.00		Cooling	Heating
Misc	1,536	0	1,536	41	1,536	60		0	0	0.00		Diffuser	
Sub Total ==>	3,148	66	3,214	87	2,548	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	23	-23	0	0	25	1		-16	0	0.00		Sec Fan	
Ventilation Load	0	0	478	13	0	0		0	-1,197	41.03		Nom Vent	
Adj Air Trans Heat	0		0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				-820	-820	28.10		Infil	
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat	17	-0.60		MinStop/Rh	
Exhaust Heat		-15	-15	0				OA Preheat Diff.	0	0.00		Return	
Sup. Fan Heat			35	1				RA Preheat Diff.	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat	-55	1.89		Auxiliary	
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Ups	
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00		Grand Total ==>	-1,698	-2,917	100.00		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

158 - Office B2

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	77.2
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	0.0
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.2
Floor	0	0	0	0	0.00	0		0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0		-863	-863	29.57			
Sub Total ==>	0	0	0	0	0	0		-863	-863	29.57			
Internal Loads					Internal Loads			Internal Loads					
Lights	262	66	328	9	262	10		0	0	0.00		AIRFLOWS	
People	1,350	0	1,350	36	750	29		0	0	0.00		Cooling	Heating
Misc	1,536	0	1,536	41	1,536	60		0	0	0.00		Diffuser	
Sub Total ==>	3,148	66	3,214	87	2,548	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	23	-23	0	0	25	1		-16	0	0.00		Sec Fan	
Ventilation Load	0	0	478	13	0	0		0	-1,197	41.03		Nom Vent	
Adj Air Trans Heat	0		0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				-820	-820	28.10		Infil	
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat	17	-0.60		MinStop/Rh	
Exhaust Heat		-15	-15	0				OA Preheat Diff.	0	0.00		Return	
Sup. Fan Heat			35	1				RA Preheat Diff.	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat	-55	1.89		Auxiliary	
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Ups	
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00		Grand Total ==>	-1,698	-2,917	100.00		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

159 - Office A3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 15					Mo/Hr: 6 / 19			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 77					OADB: 78			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	594	0	594	12	809	20	0	Glass Solar	0	0	0.00	Ret/OA	77.0
Glass/Door Cond	237	0	237	5	131	3	0	Glass/Door Cond	-1,532	-1,532	30.71	Fn MtrTD	0.0
Wall Cond	238	96	334	6	271	7	0	Wall Cond	-601	-849	17.01	Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.2
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0.00		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	Adjacent Floor	0.00	0.00	0.00		
Infiltration	0	0	0	0	0	0	0	Infiltration	-1,366	-1,366	27.38		
Sub Total ==>	1,070	96	1,166	23	1,211	31	0	Sub Total ==>	-3,499	-3,746	75.09		
Internal Loads					Internal Loads			Internal Loads					
Lights	415	104	519	10	415	11	0	Lights	0	0	0.00	AIRFLOWS	
People	1,350	0	1,350	26	750	19	0	People	0	0	0.00	Cooling	Heating
Misc	1,536	0	1,536	30	1,536	39	0	Misc	0	0	0.00	Diffuser	179
Sub Total ==>	3,301	104	3,405	66	2,701	68	0	Sub Total ==>	0	0	0.00	Terminal	179
Ceiling Load	38	-38	0	0	38	1	0	Ceiling Load	-25	0	0.00	Main Fan	179
Ventilation Load	0	0	545	11	0	0	0	Ventilation Load	0	-1,423	28.53	Sec Fan	0
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	26
Dehumid. Ov Sizing	0	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00	AHU Vent	26
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	24	-0.47	0.00	Infil	0
Exhaust Heat	-18	-18	0	0	0	0	0	OA Preheat Diff.	0	0.00	0.00	MinStop/Rh	54
Sup. Fan Heat	51	1	0	0	0	0	0	RA Preheat Diff.	0	0.00	0.00	Return	179
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00	0.00	Exhaust	26
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	157	-3.15	0.00	Rm Exh	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0.00	Auxiliary	0
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00	0.00	Leakage Dwn	0
Grand Total ==>	4,409	143	5,148	100.00	3,950	100.00	0	Grand Total ==>	-3,524	-4,989	100.00	Leakage Ups	0

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR		Gross Total		Glass	Capacity		Coil Airflow	Ent	Lvg			
ton	MBh	cfm	°F	°F	°F	°F	°F	°F	ft²	MBh	MBh	cfm	°F	°F			
			gr/lb		gr/lb				(%)								
Main Clg	0.4	5.2	4.3	173	77.0	62.8	64.2	54.7	52.6	56.5	Floor	190	-4.3	119	61.8	95.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1	-1.0	26	19.0	54.7	
											ExFlr	0	-0.8	54	54.7	68.0	
											Roof	0	0.0	0	0.0	0.0	
											Wall	250	0.0	0	0.0	0.0	
											Ext Door	0	0.0	0	0.0	0.0	
Total	0.4	5.2									Total	-5.4					

Room Checksums

By MacDonald-Miller Facility Solutions

160 - Office A2

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 15					Mo/Hr: 6 / 19			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 77					OADB: 78			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads								Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	95.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	584	0	584	11	797	20		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	233	0	233	5	129	3		-1,505	-1,505	30.44		Fn MtrTD	77.0
Wall Cond	232	94	325	6	264	7		-584	-826	16.70		Fn BldTD	43.6
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.0
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-1,366	-1,366	27.62			0.0
Sub Total ==>	1,049	94	1,142	22	1,189	30		-3,455	-3,697	74.76			0.0
Internal Loads								Internal Loads					
Lights	415	104	519	10	415	11		0	0	0.00		AIRFLOWS	
People	1,350	0	1,350	26	750	19		0	0	0.00		Cooling	Heating
Misc	1,536	0	1,536	30	1,536	39		0	0	0.00		Diffuser	
Sub Total ==>	3,301	104	3,405	66	2,701	69		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	38	-38	0	0	38	1		-25	0	0.00		Sec Fan	
Ventilation Load	0	0	545	11	0	0		0	-1,423	28.79		Nom Vent	
Adj Air Trans Heat	0	0	0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				0	0	0.00		Infil	
Ov/Undr Sizing	0	0	0	0	0	0		0	0	0.00		MinStop/Rh	
Exhaust Heat		-18	-18	0				0	24	-0.48		Return	
Sup. Fan Heat		51	51	1				0	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				0	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				0	152	-3.07		Auxiliary	
Underflr Sup Ht Pkup		0	0	0				0	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				0	0	0.00		Leakage Ups	
Grand Total ==>	4,388	141	5,124	100.00	3,928	100.00		-3,480	-4,945	100.00		ENGINEERING CKS	
												Cooling	Heating
												% OA	
												cfm/ft²	
												cfm/ton	
												ft²/ton	
												Btu/hr-ft²	
												No. People	

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.4	5.1	4.3	172	77.0	62.8	64.2	54.7	52.6	56.5	Floor	190		Main Htg	-4.3	117	61.7	95.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-1.0	26	19.0	54.7	
											ExFlr	0		Reheat	-0.8	54	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	244	78	32	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-5.3			
Total	0.4	5.1																	

Room Checksums

By MacDonald-Miller Facility Solutions

161 - Corridor 5

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00	SADB	55.0
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00	Ra Plenum	95.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0.00	Return	75.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0.00	Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00	Fn MtrTD	77.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0.00	Fn BldTD	39.1
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00	Fn Frict	0.0
Floor	0	0	0	0	0.00	0	0	Floor	-307	-307	23.21		0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		0.0
Infiltration	0	0	0	0	0	0	0	Infiltration	-683	-683	51.64		0.0
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-990	-990	74.85		0.0
Internal Loads					Internal Loads			Internal Loads					
Lights	208	52	259	30	208	29	29	Lights	0	0	0.00	AIRFLOWS	
People	0	0	0	0	0	0	0	People	0	0	0.00	Cooling	Heating
Misc	486	0	486	56	486	68	68	Misc	0	0	0.00	Diffuser	32
Sub Total ==>	694	52	746	85	694	97	97	Sub Total ==>	0	0	0.00	Terminal	32
Ceiling Load	18	-18	0	0	20	3	3	Ceiling Load	-13	0	0.00	Main Fan	10
Ventilation Load	0	0	123	14	0	0	0	Ventilation Load	0	-307	23.24	Sec Fan	24
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	Nom Vent	6
Dehumid. Ov Sizing	0	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00	AHU Vent	6
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	8	-0.64	0.00	Infil	13
Exhaust Heat	-4	-4	0	0	0	0	0	OA Preheat Diff.	0	0.00	0.00	MinStop/Rh	10
Sup. Fan Heat	10	10	0	0	0	0	0	RA Preheat Diff.	0	0.00	0.00	Return	22
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00	0.00	Exhaust	18
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	-34	2.55	0.00	Rm Exh	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	0.00	Auxiliary	0
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00	0.00	Leakage Dwn	0
Grand Total ==>	712	30	874	100.00	714	100.00	100.00	Grand Total ==>	-1,002	-1,323	100.00	Leakage Ups	0

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.1	0.9	0.8	32	77.0	63.0	64.9	54.7	53.8	61.3	Floor	95			Main Htg	-1.2	34	63.9	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0			Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1			Preheat	-0.2	6	19.0	54.7
											ExFlr	12			Reheat	-0.1	10	54.7	68.0
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-1.4			
Total	0.1	0.9																	

Room Checksums

By MacDonald-Miller Facility Solutions

162 - Meeting Room 2

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 19					Mo/Hr: 6 / 19			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 78 / 63 / 65					OADB: 78			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	6,354	0	6,354	28	6,354	34	0	0	0	0.00	Ret/OA	75.9	52.0
Glass/Door Cond	399	0	399	2	399	2	0	-4,676	-4,676	27.70	Fn MtrTD	0.0	0.0
Wall Cond	1,866	748	2,614	12	1,866	10	0	-1,949	-2,734	16.19	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-2,588	-2,588	15.33			
Sub Total ==>	8,619	748	9,367	42	8,619	46	0	-9,214	-9,999	59.22			
Internal Loads					Internal Loads			Internal Loads					
Lights	786	197	983	4	786	4	0	0	0	0.00			
People	5,400	0	5,400	24	3,000	16	0	0	0	0.00			
Misc	6,143	0	6,143	27	6,143	33	0	0	0	0.00			
Sub Total ==>	12,330	197	12,526	56	9,930	53	0	0	0	0.00			
Ceiling Load	72	-72	0	0	72	0	0	-47	0	0.00			
Ventilation Load	0	0	477	2	0	0	0	0	-4,400	26.06			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-3,029	-3,029	17.94			
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	59	-0.35			
Exhaust Heat	-57	-57	0	0			0	OA Preheat Diff.	0	0.00			
Sup. Fan Heat	251	1	0	0			0	RA Preheat Diff.	0	0.00			
Ret. Fan Heat	0	0	0	0			0	Additional Reheat	0	0.00			
Duct Heat Pkup	0	0	0	0			483	System Plenum Heat	0	-2.86			
Underflr Sup Ht Pkup	0	0	0	0			0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0			0	Supply Air Leakage	0	0.00			
Grand Total ==>	21,021	815	22,564	100.00	18,621	100.00	Grand Total ==>	-12,290	-16,884	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	846	508
Terminal	846	508
Main Fan	846	254
Sec Fan	0	254
Nom Vent	82	82
AHU Vent	82	82
Infil	0	48
MinStop/Rh	254	254
Return	846	302
Exhaust	82	130
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	9.6	10.7
cfm/ft²	2.35	1.41
cfm/ton	450.00	
ft²/ton	191.46	
Btu/hr-ft²	62.68	-53.67
No. People	12.0	33.3/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	1.9	22.6	20.0	846	75.9	62.0	62.1	54.7	52.8	57.3	Floor	360		Main Htg	-16.1	508	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-3.2	82	19.0	54.7	
											ExFlr	0		Reheat	-3.7	254	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	792	244	31	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-19.3			
Total	1.9	22.6																	

Room Checksums

By MacDonald-Miller Facility Solutions

164 - Meeting Room 1

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 18		Mo/Hr: 7 / 19		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 80 / 63 / 61		OADB: 79		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.6	67.6
Glass Solar	4,363	0	4,363	32	4,519	42	Glass Solar	0	0	0	0.00	Ret/OA	76.2	44.3
Glass/Door Cond	274	0	274	2	298	3	Glass/Door Cond	-2,755	-2,755	25.27	25.27	Fn MtrTD	0.0	0.0
Wall Cond	1,543	616	2,160	16	1,431	13	Wall Cond	-1,170	-1,638	15.03	15.03	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	Floor	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	Infiltration	-2,372	-2,372	21.76	21.76			
Sub Total ==>	6,180	616	6,796	49	6,247	59	Sub Total ==>	-6,297	-6,765	62.06	62.06			
Internal Loads				Internal Loads				Internal Loads						
Lights	721	180	901	7	721	7	Lights	0	0	0.00	0.00			
People	4,500	0	4,500	33	2,500	23	People	0	0	0.00	0.00			
Misc	1,126	0	1,126	8	1,126	11	Misc	0	0	0.00	0.00			
Sub Total ==>	6,347	180	6,527	47	4,347	41	Sub Total ==>	0	0	0.00	0.00			
Ceiling Load	64	-64	0	0	66	1	Ceiling Load	-43	0	0.00	0.00			
Ventilation Load	0	0	338	2	0	0	Ventilation Load	0	-3,763	34.53	34.53			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	-695	-695	6.37	6.37			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	52	-0.48	-0.48	-0.48			
Exhaust Heat	-47	-47	0	0	0	0	OA Preheat Diff.	0	0	0.00	0.00			
Sup. Fan Heat	143	143	1	1	0	0	RA Preheat Diff.	0	0	0.00	0.00			
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0	0.00	0.00			
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	271	-2.49	-2.49	-2.49			
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00	0.00			
Grand Total ==>	12,591	685	13,757	100.00	10,660	100.00	Grand Total ==>	-7,035	-10,900	100.00	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	(%)	Capacity	Coil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								
Main Clg	1.2	13.8	11.8	481	76.2	62.1	61.8	54.7	52.1	330	0	0	-9.2	291	61.2	90.0	Main Htg
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0.0	0	0.0	0.0	Aux Htg
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	1	0	0	-2.7	70	19.0	54.7	Preheat
										0	0	0	-2.1	145	54.7	68.0	Reheat
										0	0	0	0.0	0	0.0	0.0	Humidif
										472	144	30	0.0	0	0.0	0.0	Opt Vent
Total	1.2	13.8								0	0	0	-12.0				Total

Room Checksums

By MacDonald-Miller Facility Solutions

165 - EOC

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 6 / 16			Mo/Hr: 7 / 18		Mo/Hr: Heating Design					Cooling		Heating		
Outside Air:		OADB/WB/HR: 84 / 67 / 75			OADB: 82		OADB: 19					SADB	55.0	90.0		
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent		Ra Plenum	75.7	67.6		
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total		Return	75.7	67.6		
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)		Ret/OA	77.2	37.9		
Envelope Loads					Envelope Loads					Fn MtrTD					0.0	0.0
Skylite Solar	0	0	0	0	0	0		Skylite Solar	0	0	0.00	Fn BldTD	0.1	0.0		
Skylite Cond	0	0	0	0	0	0		Skylite Cond	0	0	0.00	Fn Frict	0.2	0.0		
Roof Cond	0	0	0	0	0	0		Roof Cond	0	0	0.00					
Glass Solar	0	0	0	0	0	0		Glass Solar	0	0	0.00					
Glass/Door Cond	0	0	0	0	0	0		Glass/Door Cond	0	0	0.00					
Wall Cond	978	242	1,219	5	1,119	7		Wall Cond	-768	-958	5.36					
Partition/Door	0		0	0	0	0		Partition/Door	0	0	0.00					
Floor	0		0	0	0.00	0		Floor	0	0	0.00					
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		Adjacent Floor	0.00	0.00	0.00					
Infiltration	0		0	0	0	0		Infiltration	-5,751	-5,751	32.20					
Sub Total ==>	978	242	1,219	5	1,119	7		Sub Total ==>	-6,519	-6,709	37.57					
Internal Loads					Internal Loads											
Lights	1,747	437	2,184	10	1,747	11		Lights	0	0	0.00	AIRFLOWS				
People	7,650	0	7,650	34	4,250	27		People	0	0	0.00	Cooling	Heating			
Misc	8,703	0	8,703	39	8,703	54		Misc	0	0	0.00	Diffuser	726	436		
Sub Total ==>	18,101	437	18,537	83	14,701	92		Sub Total ==>	0	0	0.00	Terminal	726	436		
Ceiling Load	165	-165	0	0	165	1		Ceiling Load	-105	0	0.00	Main Fan	726	218		
Ventilation Load	0	0	2,484	11	0	0		Ventilation Load	0	-7,171	40.15	Sec Fan	0	218		
Adj Air Trans Heat	0		0	0	0	0		Adj Air Trans Heat	0	0	0	Nom Vent	133	133		
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-3,926	-3,926	21.98	AHU Vent	133	133		
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat		110	-0.61	Infil	0	107		
Exhaust Heat		-96	-96	0				OA Preheat Diff.		0	0.00	MinStop/Rh	218	218		
Sup. Fan Heat			213	1				RA Preheat Diff.		0	0.00	Return	726	325		
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00	Exhaust	133	240		
Duct Heat Pkup		0	0	0				System Plenum Heat		-163	0.91	Rm Exh	0	0		
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00	Auxiliary	0	0		
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00	Leakage Dwn	0	0		
Grand Total ==>	19,244	418	22,359	100.00	15,985	100.00		Grand Total ==>	-10,550	-17,860	100.00	Leakage Ups	0	0		

ENGINEERING CKS		
	Cooling	Heating
% OA	18.3	20.3
cfm/ft²	0.91	0.54
cfm/ton	389.85	
ft²/ton	429.36	
Btu/hr-ft²	27.95	-23.83
No. People	17.0	21.3/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft²	(%)	Capacity	Coil Airflow	Ent °F	Lvg °F	
ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb					MBh	cfm			
Main Clg	1.9	22.4	17.8	720	77.2	62.9	64.3	54.7	52.2	800				Main Htg	-13.8	436	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0				Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	1				Preheat	-5.2	133	19.0	54.7
										ExFlr	0			Reheat	-3.2	218	54.7	68.0
										Roof	0	0	0	Humidif	0.0	0	0.0	0.0
										Wall	192	0	0	Opt Vent	0.0	0	0.0	0.0
Total	1.9	22.4								Ext Door	0	0	0	Total	-19.1			

Room Checksums

By MacDonald-Miller Facility Solutions

166 - Corridor 3

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 15		Mo/Hr: 6 / 19		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 84 / 68 / 77		OADB: 78		OADB: 19		OADB: 19		OADB: 19				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Coil Peak	Percent			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	Of Total	Btu/h	Btu/h	(%)			
Envelope Loads				Envelope Loads				Envelope Loads						
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	SADB	55.0	95.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	Roof Cond	0	0.00	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	0	0	0.00	Ret/OA	76.9	44.6
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0.00	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	368	89	457	18	419	19	Wall Cond	31.10	-928	-1,158	31.10	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	Partition/Door	0.00	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0.00	0	0	Floor	8.25	-307	-307	8.25			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	Infiltration	44.81	-1,668	-1,668	44.81			
Sub Total ==>	368	89	457	18	419	19	Sub Total ==>	84.15	-2,902	-3,132	84.15			
Internal Loads				Internal Loads				Internal Loads						
Lights	507	127	633	25	507	23	Lights	0.00	0	0	0.00			
People	0	0	0	0	0	0	People	0.00	0	0	0.00			
Misc	1,188	0	1,188	46	1,188	55	Misc	0.00	0	0	0.00			
Sub Total ==>	1,694	127	1,821	70	1,694	78	Sub Total ==>	0.00	0	0	0.00			
Ceiling Load	47	-47	0	0	46	2	Ceiling Load	0.00	-31	0	0.00			
Ventilation Load	0	0	287	11	0	0	Ventilation Load	20.16	0	-751	20.16			
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0.00	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	-0.55	0	21	-0.55			
Exhaust Heat	0	-10	-10	0	0	0	OA Preheat Diff.	0.00	0	0	0.00			
Sup. Fan Heat	0	28	28	1	0	0	RA Preheat Diff.	0.00	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	-3.76	140	0	-3.76			
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0.00	0	0	0.00			
Grand Total ==>	2,109	159	2,584	100.00	2,160	100.00	Grand Total ==>	100.00	-2,933	-3,722	100.00			

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR				Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
ton	MBh	MBh	°F	°F	gr/lb	°F	°F	gr/lb			ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.2	2.6	2.4	96	76.9	62.8	64.1	54.7	53.6	60.3	Floor	232		Main Htg	-3.4	99	63.8	95.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.6	14	19.0	54.7
											ExFlr	12		Reheat	-0.4	29	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	232	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.9			
Total	0.2	2.6																

Room Checksums

By MacDonald-Miller Facility Solutions

167 - Future Office 7

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17					Mo/Hr: Heating Design							
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84					OADB: 19							
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total				Space Peak	Coil Peak	Percent					
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)				Space Sens	Tot Sens	Of Total					
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00			SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00			Ra Plenum	55.0	90.0
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00			Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0	0.00			Ret/OA	77.2	36.3
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00			Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0	0.00			Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0	0.00			Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0	0.00					
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00	0.00					
Infiltration	0	0	0	0	0	0	0	Infiltration	-935	-935	31.52						
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	-935	-935	31.52						
Internal Loads					Internal Loads												
Lights	284	71	355	9	284	11	11	Lights	0	0	0	0.00					
People	1,350	0	1,350	36	750	29	29	People	0	0	0	0.00					
Misc	1,536	0	1,536	41	1,536	59	59	Misc	0	0	0	0.00					
Sub Total ==>	3,170	71	3,241	86	2,570	99	99	Sub Total ==>	0	0	0	0.00					
Ceiling Load	25	-25	0	0	27	1	1	Ceiling Load	-17	0	0	0.00					
Ventilation Load	0	0	491	13	0	0	0	Ventilation Load	0	-1,229	41.46						
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0						
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	-762	-762	25.71						
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		18	-0.62						
Exhaust Heat		-15	-15	0				OA Preheat Diff.		0	0.00						
Sup. Fan Heat			35	1				RA Preheat Diff.		0	0.00						
Ret. Fan Heat		0	0	0				Additional Reheat		0	0.00						
Duct Heat Pkup		0	0	0				System Plenum Heat		-57	1.94						
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00						
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00						
Grand Total ==>	3,195	31	3,751	100.00	2,597	100.00	100.00	Grand Total ==>	-1,714	-2,965	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	118	71
Terminal	118	71
Main Fan	118	35
Sec Fan	0	35
Nom Vent	23	23
AHU Vent	23	23
Infil	0	17
MinStop/Rh	35	35
Return	118	53
Exhaust	23	40
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.3	21.5
cfm/ft²	0.91	0.54
cfm/ton	377.50	
ft²/ton	415.84	
Btu/hr-ft²	28.86	-24.18
No. People	3.0	23.1/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.3	3.8	2.9	118	77.2	63.1	65.2	54.7	52.2	55.0	Floor	130		Main Htg	-2.3	71	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	23	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
Total	0.3	3.8									Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

168 - Future Office 6

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	77.2	36.8
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-863	-863	29.57			
Sub Total ==>	0	0	0	0	0	0	0	-863	-863	29.57			
Internal Loads					Internal Loads			Internal Loads					
Lights	262	66	328	9	262	10	10	0	0	0.00			
People	1,350	0	1,350	36	750	29	29	0	0	0.00			
Misc	1,536	0	1,536	41	1,536	60	60	0	0	0.00			
Sub Total ==>	3,148	66	3,214	87	2,548	99	99	0	0	0.00			
Ceiling Load	23	-23	0	0	25	1	1	-16	0	0.00			
Ventilation Load	0	0	478	13	0	0	0	0	-1,197	41.03			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	-820	-820	28.10			
Ov/Undr Sizing	0	0	0	0	0	0	0	Exhaust Heat	17	-0.60			
Exhaust Heat	0	-15	-15	0	0	0	0	OA Preheat Diff.	0	0.00			
Sup. Fan Heat	0	0	35	1	0	0	0	RA Preheat Diff.	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	Additional Reheat	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	System Plenum Heat	-55	1.89			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0.00			
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00	100.00	-1,698	-2,917	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	117	70
Terminal	117	70
Main Fan	117	35
Sec Fan	0	35
Nom Vent	22	22
AHU Vent	22	22
Infil	0	16
MinStop/Rh	35	35
Return	117	51
Exhaust	22	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	19.0	21.1
cfm/ft²	0.97	0.58
cfm/ton	378.07	
ft²/ton	388.01	
Btu/hr-ft²	30.93	-25.83
No. People	3.0	25.0/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total		Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7	
											ExFlr	0		Reheat	-0.5	35	54.7	68.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.1			
Total	0.3	3.7																	

Room Checksums

By MacDonald-Miller Facility Solutions

169 - Future Office 5

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	75.6
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	77.2
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	0.0
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	0.1
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.2
Floor	0	0	0	0	0.00	0		0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0		-863	-863	29.57			
Sub Total ==>	0	0	0	0	0	0		-863	-863	29.57			
Internal Loads					Internal Loads			Internal Loads					
Lights	262	66	328	9	262	10		0	0	0.00		AIRFLOWS	
People	1,350	0	1,350	36	750	29		0	0	0.00		Cooling	Heating
Misc	1,536	0	1,536	41	1,536	60		0	0	0.00		Diffuser	
Sub Total ==>	3,148	66	3,214	87	2,548	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	23	-23	0	0	25	1		-16	0	0.00		Sec Fan	
Ventilation Load	0	0	478	13	0	0		0	-1,197	41.03		Nom Vent	
Adj Air Trans Heat	0		0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				-820	-820	28.10		Infil	
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat	17	-0.60		MinStop/Rh	
Exhaust Heat		-15	-15	0				OA Preheat Diff.	0	0.00		Return	
Sup. Fan Heat			35	1				RA Preheat Diff.	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat	-55	1.89		Auxiliary	
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Ups	
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00		Grand Total ==>	-1,698	-2,917	100.00		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

170 - Future Office 4

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)			
Envelope Loads					Envelope Loads			Envelope Loads					
Skylite Solar	0	0	0	0	0	0		0	0	0.00		SADB	55.0
Skylite Cond	0	0	0	0	0	0		0	0	0.00		Ra Plenum	90.0
Roof Cond	0	0	0	0	0	0		0	0	0.00		Return	75.6
Glass Solar	0	0	0	0	0	0		0	0	0.00		Ret/OA	75.6
Glass/Door Cond	0	0	0	0	0	0		0	0	0.00		Fn MtrTD	77.2
Wall Cond	0	0	0	0	0	0		0	0	0.00		Fn BldTD	0.0
Partition/Door	0	0	0	0	0	0		0	0	0.00		Fn Frict	0.1
Floor	0	0	0	0	0.00	0		0	0	0.00			0.0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.0
Infiltration	0	0	0	0	0	0		-863	-863	29.57			0.0
Sub Total ==>	0	0	0	0	0	0		-863	-863	29.57			0.0
Internal Loads					Internal Loads			Internal Loads					
Lights	262	66	328	9	262	10		0	0	0.00		AIRFLOWS	
People	1,350	0	1,350	36	750	29		0	0	0.00		Cooling	Heating
Misc	1,536	0	1,536	41	1,536	60		0	0	0.00		Diffuser	
Sub Total ==>	3,148	66	3,214	87	2,548	99		0	0	0.00		Terminal	
												Main Fan	
Ceiling Load	23	-23	0	0	25	1		-16	0	0.00		Sec Fan	
Ventilation Load	0	0	478	13	0	0		0	-1,197	41.03		Nom Vent	
Adj Air Trans Heat	0		0	0	0	0		0	0	0		AHU Vent	
Dehumid. Ov Sizing			0	0				-820	-820	28.10		Infil	
Ov/Undr Sizing	0		0	0	0	0		Exhaust Heat	17	-0.60		MinStop/Rh	
Exhaust Heat		-15	-15	0				OA Preheat Diff.	0	0.00		Return	
Sup. Fan Heat			35	1				RA Preheat Diff.	0	0.00		Exhaust	
Ret. Fan Heat		0	0	0				Additional Reheat	0	0.00		Rm Exh	
Duct Heat Pkup		0	0	0				System Plenum Heat	-55	1.89		Auxiliary	
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00		Leakage Dwn	
Supply Air Leakage		0	0	0				Supply Air Leakage	0	0.00		Leakage Ups	
Grand Total ==>	3,171	28	3,711	100.00	2,573	100.00		Grand Total ==>	-1,698	-2,917	100.00		

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	0.3	3.7	2.9	117	77.2	63.1	65.1	54.7	52.2	54.9	Floor	120		Main Htg	-2.2	70	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-0.9	22	19.0	54.7
											ExFlr	0		Reheat	-0.5	35	54.7	68.0
Total	0.3	3.7									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Room Checksums

By MacDonald-Miller Facility Solutions

172 - Multi-Purpose Room East

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 6 / 14					Mo/Hr: 7 / 17			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 84 / 68 / 79					OADB: 84			OADB: 19					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Envelope Loads					Envelope Loads								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	55.0	90.0
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.6	67.6
Roof Cond	0	0	0	0	0	0	0	0	0	0.00	Return	75.6	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	77.1	37.6
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.1	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.2	0.0
Floor	0	0	0	0	0.00	0	0	0	0	0.00			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	0	0	0	0	0	0	0	-4,601	-4,601	26.88			
Sub Total ==>	0	0	0	0	0	0	0	-4,601	-4,601	26.88			
Internal Loads					Internal Loads								
Lights	1,398	349	1,747	8	1,398	9	0	0	0	0.00			
People	8,100	0	8,100	37	4,500	30	0	0	0	0.00			
Misc	9,215	0	9,215	42	9,215	60	0	0	0	0.00			
Sub Total ==>	18,713	349	19,063	87	15,113	99	0	0	0	0.00			
Ceiling Load	123	-123	0	0	134	1	-84	0	0	0.00			
Ventilation Load	0	0	2,764	13	0	0	0	-6,923	40.44				
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	-5,378	-5,378	31.42				
Ov/Undr Sizing	0	0	0	0	0	0	98	-0.57					
Exhaust Heat	-85	-85	0	0	0	0	0	0	0.00				
Sup. Fan Heat	205	1	0	0	0	0	0	0	0.00				
Ret. Fan Heat	0	0	0	0	0	0	0	0	0.00				
Duct Heat Pkup	0	0	0	0	0	0	-313	1.83					
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00				
Grand Total ==>	18,836	141	21,946	100.00	15,247	100.00	Grand Total ==>	-10,063	-17,117	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	693	416
Terminal	693	416
Main Fan	693	208
Sec Fan	0	208
Nom Vent	128	128
AHU Vent	128	128
Infil	0	85
MinStop/Rh	208	208
Return	693	293
Exhaust	128	214
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.5	20.6
cfm/ft²	1.08	0.65
cfm/ton	378.84	
ft²/ton	349.94	
Btu/hr-ft²	34.29	-28.50
No. People	18.0	28.1/1000 ft²

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft²	(%)		MBh	cfm	°F	°F
Main Clg	1.8	22.0	16.8	692	77.1	63.1	65.0	54.7	52.2	54.9	Floor	640		Main Htg	-13.2	416	61.2	90.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	1		Preheat	-5.1	128	19.0	54.7
											ExFlr	0		Reheat	-3.0	208	54.7	68.0
Total	1.8	22.0									Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-18.2			

System Component Selection Summary

By MacDonald-Miller Facility Solutions

Alternative 1

System Description: VAV AHU - 1st Floor

System Type: Parallel Fan Powered VAV, Htg Coil on Mixing Box Outlet

Number of Zones: 20

Number of Rooms: 69

Component	Sizing Method	Location	Quantity
Cooling			
Main Clg Coil	Block	System	1
Primary Clg Fan	Block	System	1
Heating			
Main Htg Coil	Peak	Zone	20
Preheat Coil	Peak	System	1
Secondary Fan	Plenum Runaround	Zone	20
Miscellaneous			
System Exhaust Fan	Vent+Inf-RmExh	System	1
Return Fan	Return Airflow	System	1
VAV Boxes	Block	Zone	20

Peak sizing for VAV systems based on worst case of design airflow and 100% OA at minimum airflow

Coil Location			Cooling Coil Selection											
System	Zone	Room	Component	Time	Total Capacity		Sensible	Airflow At	Enter DB/ WB/ HR			Leave DB/ WB/ HR		
				Of Peak	ton	MBh	Capacity	Coil Peak	°F	°F	gr/lb	°F	°F	gr/lb
				Mo/Hr			MBh	cfm						
VAV AHU - 1st Floor			Main Clg Coil	6/15	39.0	468.4	377.0	15,374	77.0	62.9	64.3	54.7	52.4	55.7

Coil Location			Heating Coil Selection			
System	Zone	Room	Component	Total Capacity MBh	Airflow cfm	Entering Dry Bulb °F
VAV AHU - 1st Floor			Preheat Coil	-97.1	2,469	19.0
	Zone - 001		Main Htg Coil	-22.4	676	61.8
	Zone - 002		Main Htg Coil	-17.2	541	61.2
	Zone - 003		Main Htg Coil	-23.6	691	63.5
	Zone - 004		Main Htg Coil	-31.1	958	61.5
	Zone - 005		Main Htg Coil	-16.1	508	61.2
	Zone - 006		Main Htg Coil	-6.3	197	61.2
	Zone - 007		Main Htg Coil	-9.2	291	61.2
	Zone - 008		Main Htg Coil	-21.2	645	61.7
	Zone - 009		Main Htg Coil	-21.3	611	61.5
	Zone - 010		Main Htg Coil	-30.1	937	61.5
	Zone - 011		Main Htg Coil	-13.2	416	61.2
	Zone - 012		Main Htg Coil	-20.8	644	61.8
	Zone - 013		Main Htg Coil	-9.1	287	61.2
	Zone - 014		Main Htg Coil	-23.6	719	62.0
	Zone - 015		Main Htg Coil	-23.5	740	61.2
	Zone - 016		Main Htg Coil	-27.9	878	61.2
	Zone - 017		Main Htg Coil	-10.9	342	61.2

System Component Selection Summary

By MacDonald-Miller Facility Solutions

Coil Location			Heating Coil Selection			
System	Zone	Room	Component	Total Capacity MBh	Airflow cfm	Entering Dry Bulb °F
	Zone - 018		Main Htg Coil	-4.6	144	61.2
	Zone - 019		Main Htg Coil	-13.4	423	61.2
	Zone - 020		Main Htg Coil	-8.9	280	61.2

Component Location			Miscellaneous Component Selection						
System	Zone	Room	Component	Design Airflow cfm	Ach/hr	Outside Air %	SADB Clg °F	Htg °F	Clg VAV Minimum cfm
		VAV AHU - 1st Floor	Return Fan	18,313					
		VAV AHU - 1st Floor	Optional Vent Fan	2,469		100			
		VAV AHU - 1st Floor	System Exhaust Fan	4,871					
		VAV AHU - 1st Floor	Primary Fan	15,911		15.5	55.0		5,132
	Zone - 001		VAV Box	1,013		0.0	55.0	92.0	304
		104 - Board Room North	Diffuser	698	6.5	9.9			210
		105 - Furniture Storage	Diffuser	102	1.5	14.6			31
		106 - Archive	Diffuser	79	1.5	14.8			24
		107 - Mail Area	Diffuser	133	1.5	18.4			40
	Zone - 002		VAV Box	902		0.0	55.0	90.0	271
		104 - Board Room South	Diffuser	902	5.1	12.2			271
	Zone - 003		VAV Box	736		0.0	55.0	95.0	221
		101 - Reception	Diffuser	624	3.7	10.2			187
		103 - Reception Desk	Diffuser	111	4.1	14.5			33
	Zone - 004		VAV Box	1,500		0.0	55.0	91.0	450
		117 - Fitness Room	Diffuser	817	4.3	10.2			245
		118 - Corridor 2	Diffuser	179	1.4	15.7			54
		119 - Storage	Diffuser	62	1.3	17.6			19
		120 - Mothers Room	Diffuser	79	3.3	19.5			24
		121 - Quiet Room	Diffuser	79	3.3	19.5			24
		122 - Booth Seating Area	Diffuser	284	4.4	33.3			85
	Zone - 005		VAV Box	846		0.0	55.0	90.0	254
		162 - Meeting Room 2	Diffuser	846	8.8	9.6			254
	Zone - 006		VAV Box	328		0.0	55.0	90.0	98
		163 - Office A1	Diffuser	328	5.4	8.8			98
	Zone - 007		VAV Box	484		0.0	55.0	90.0	145
		164 - Meeting Room 1	Diffuser	484	5.5	14.4			145
	Zone - 008		VAV Box	977		0.0	55.0	92.0	293
		111 - Library	Diffuser	34	1.3	17.6			10
		112 - General Storage	Diffuser	119	1.3	17.6			36
		165 - EOC	Diffuser	726	3.4	18.3			218

Project Name: SHBTC Core & Shell Proposed Bldg C
Dataset Name: SH_BLDG C-2022-12-28.TRC

TRACE® 700 v6.3.5 calculated at 08:56 AM on 01/26/2023
Alternative - 1 System Component Selection Summary Page 2 of 4

System Component Selection Summary

By MacDonald-Miller Facility Solutions

Component Location			Miscellaneous Component Selection							
System	Zone	Room	Component	Design Airflow		Outside Air %	SADB		Clg VAV Minimum cfm	Htg VAV Maximum cfm
				cfm	Ach/hr		Clg °F	Htg °F		
		166 - Corridor 3	Diffuser	99	1.6	14.2			29	29
	Zone - 009		VAV Box	968		0.0	55.0	93.0	290	290
		140 - Office B8	Diffuser	130	3.3	18.4			39	39
		141 - Office B7	Diffuser	149	3.7	16.1			45	45
		150 - Office B6	Diffuser	152	4.1	15.4			46	46
		151 - Office B5	Diffuser	178	3.7	14.5			53	53
		159 - Office A3	Diffuser	179	3.5	14.7			54	54
		160 - Office A2	Diffuser	179	3.5	14.8			54	54
	Zone - 010		VAV Box	1,484		0.0	55.0	91.0	445	445
		149 - Corridor 7 East	Diffuser	64	1.3	17.6			19	19
		152 - Corridor 6	Diffuser	35	1.3	17.6			10	10
		154 - Open Collab Area	Diffuser	652	2.5	19.6			195	195
		155 - Office B3	Diffuser	117	3.7	19.0			35	35
		156 - Office B4	Diffuser	117	3.7	19.0			35	35
		157 - Office B1	Diffuser	117	3.7	19.0			35	35
		158 - Office B2	Diffuser	117	3.7	19.0			35	35
		161 - Corridor 5	Diffuser	34	1.3	17.6			10	10
		167 - Future Office 7	Diffuser	118	3.4	19.3			35	35
		168 - Future Office 6	Diffuser	117	3.7	19.0			35	35
	Zone - 011		VAV Box	693		0.0	55.0	90.0	208	208
		172 - Multi-Purpose Room East	Diffuser	693	4.1	18.5			208	208
	Zone - 012		VAV Box	973		0.0	55.0	91.0	292	292
		135 - Office C2	Diffuser	117	3.5	19.2			35	35
		136 - Office C1	Diffuser	117	3.5	19.2			35	35
		137 - Corridor 9 North	Diffuser	48	1.3	17.6			14	14
		139 - Office B9	Diffuser	119	3.2	19.7			36	36
		142 - Corridor 8	Diffuser	53	1.3	17.6			16	16
		143 - Office B10	Diffuser	117	3.7	19.0			35	35
		144 - Office B14	Diffuser	117	3.7	19.0			35	35
		147 - Office B12	Diffuser	117	3.7	19.0			35	35
		148 - Office B11	Diffuser	117	3.7	19.0			35	35
		149 - Corridor 7 North	Diffuser	34	1.3	17.6			10	10
		149 - Corridor 7 West	Diffuser	23	1.7	17.6			5	5
	Zone - 013		VAV Box	479		0.0	55.0	90.0	144	144
		172 - Multi-Purpose Room West	Diffuser	479	3.1	19.8			144	144
	Zone - 014		VAV Box	1,043		0.0	55.0	92.0	313	313
		129 - Office C4	Diffuser	117	3.7	18.9			35	35

System Component Selection Summary

By MacDonald-Miller Facility Solutions

Component Location			Miscellaneous Component Selection							
System	Zone	Room	Component	Design Airflow		Outside Air	SADB		Clg VAV	Htg VAV
				cfm	Ach/hr	%	Clg °F	Htg °F	Minimum cfm	Maximum cfm
		130 - Office C3	Diffuser	117	3.7	18.9			35	35
		137 - Corridor 9 South	Diffuser	82	1.3	17.6			25	25
		145 - Office B13	Diffuser	117	3.7	19.0			35	35
		146 - Copy Print	Diffuser	180	5.4	6.9			54	54
		169 - Future Office 5	Diffuser	117	3.7	19.0			35	35
		170 - Future Office 4	Diffuser	117	3.7	19.0			35	35
		171 - Corridor 4 East	Diffuser	35	1.3	17.6			10	10
		171 - Corridor 4 North	Diffuser	71	1.3	17.6			21	21
		171 - Corridor 4 South	Diffuser	95	1.7	14.0			28	28
	Zone - 015		VAV Box	1,233		0.0	55.0	90.0	370	370
		138 - Open Meeting Area	Diffuser	1,233	9.6	9.6			370	370
	Zone - 016		VAV Box	1,463		0.0	55.0	90.0	439	439
		127 - Future Office 3	Diffuser	375	8.8	6.6			112	112
		128 - Future Office 2	Diffuser	375	8.8	6.6			112	112
		131 - Future Office 1	Diffuser	375	8.8	6.6			112	112
		132 - Office B16	Diffuser	167	4.2	14.4			50	50
		133 - Office B15	Diffuser	171	4.0	14.4			51	51
	Zone - 017		VAV Box	570		0.0	55.0	90.0	171	171
		126 - AV Studio	Diffuser	570	7.5	17.0			171	171
	Zone - 018		VAV Box	241		0.0	55.0	90.0	72	72
		125 - AV Control Room	Diffuser	241	6.2	3.6			72	72
	Zone - 019		VAV Box	706		0.0	55.0	90.0	212	212
		124 - Break Room	Diffuser	706	4.1	16.8			212	212
	Zone - 020		VAV Box	466		0.0	55.0	90.0	140	140
		123 - Open Collab Area 3	Diffuser	466	3.3	17.6			140	140

Load / Airflow Summary

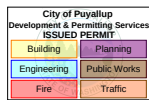
By MacDonald-Miller Facility Solutions

System	Zone	Room **	Floor Area ft²	People #	Coil Cooling Sensible Btu/h	Coil Cooling Total Btu/h	Space Design Max SA cfm	Air Changes ach/hr	VAV Minimum SA cfm	VAV Minimum %	Main Coil Heating Sensible Btu/h	Heating Fan Max SA cfm	Percent OA	
													Clg	Htg
Alternative 1														
		104 - Board Room North	Rm Peak	401	9.0	16,685	18,785	698	6.53	210	30	-13,299	210	9.9 11.0
		105 - Furniture Storage	Rm Peak	250	0.0	2,525	2,703	102	1.54	31	30	-3,146	59	14.6 12.4
		106 - Archive	Rm Peak	195	0.0	1,947	2,086	79	1.52	24	30	-2,402	45	14.8 12.7
		107 - Mail Area	Rm Peak	325	1.0	3,317	3,807	133	1.54	40	30	-3,529	58	18.4 17.7
	Zone - 001		Zn Peak	1,171	10.0	23,914	26,821	1,013			30	-22,375	372	11.9 12.3
	Zone - 001		Zn Block	1,171	10.0	24,349	26,871	1,009			30	-22,375	372	11.9 12.3
		104 - Board Room South	Rm Peak	670	14.0	21,261	24,743	902	5.05	271	30	-17,184	271	12.2 13.6
	Zone - 002		Zn Peak	670	14.0	21,261	24,743	902			30	-17,184	271	12.2 13.6
	Zone - 002		Zn Block	670	14.0	21,261	24,743	902			30	-17,184	271	12.2 13.6
		101 - Reception	Rm Peak	640	5.0	15,055	16,330	624	3.66	187	30	-21,469	437	10.2 7.8
		103 - Reception Desk	Rm Peak	102	2.0	2,663	3,254	111	4.09	33	30	-2,121	33	14.5 16.1
	Zone - 003		Zn Peak	742	7.0	17,542	19,408	736			30	-23,590	470	10.8 8.7
	Zone - 003		Zn Block	742	7.0	17,662	19,407	736			30	-23,590	470	10.8 8.7
		117 - Fitness Room	Rm Peak	714	8.0	19,197	28,900	817	4.29	245	30	-15,549	245	10.1 11.3
		118 - Corridor 2	Rm Peak	470	0.0	4,435	4,770	179	1.43	54	30	-5,508	104	15.7 13.4
		119 - Storage	Rm Peak	182	0.0	1,545	1,675	62	1.28	19	30	-1,617	26	17.6 17.2
		120 - Mothers Room	Rm Peak	90	2.0	1,932	2,514	79	3.29	24	30	-1,505	24	19.5 21.6
		121 - Quiet Room	Rm Peak	90	2.0	1,932	2,514	79	3.29	24	30	-1,505	24	19.5 21.6
		122 - Booth Seating Area	Rm Peak	245	16.0	7,277	11,601	284	4.35	85	30	-5,416	85	33.3 33.3
	Zone - 004		Zn Peak	1,791	28.0	36,318	51,974	1,500			30	-31,099	507	16.5 16.9
	Zone - 004		Zn Block	1,791	28.0	36,318	51,974	1,500			30	-31,099	507	16.5 16.9
		162 - Meeting Room 2	Rm Peak	360	12.0	19,999	22,564	846	8.81	254	30	-16,112	254	9.6 10.7
	Zone - 005		Zn Peak	360	12.0	19,999	22,564	846			30	-16,112	254	9.6 10.7
	Zone - 005		Zn Block	360	12.0	19,999	22,564	846			30	-16,112	254	9.6 10.7
		163 - Office A1	Rm Peak	230	3.0	7,911	8,499	328	5.35	98	30	-6,251	98	8.8 9.7
	Zone - 006		Zn Peak	230	3.0	7,911	8,499	328			30	-6,251	98	8.8 9.7
	Zone - 006		Zn Block	230	3.0	7,911	8,499	328			30	-6,251	98	8.8 9.7
		164 - Meeting Room 1	Rm Peak	330	10.0	11,786	13,757	484	5.50	145	30	-9,224	145	14.4 16.0
	Zone - 007		Zn Peak	330	10.0	11,786	13,757	484			30	-9,224	145	14.4 16.0
	Zone - 007		Zn Block	330	10.0	11,786	13,757	484			30	-9,224	145	14.4 16.0
		111 - Library	Rm Peak	100	0.0	849	920	34	1.28	10	30	-888	14	17.6 17.2
		112 - General Storage	Rm Peak	348	0.0	2,955	3,202	119	1.28	36	30	-3,091	50	17.6 17.2
		165 - EOC	Rm Peak	800	17.0	17,760	22,359	726	3.40	218	30	-13,832	218	18.3 20.3
		166 - Corridor 3	Rm Peak	232	0.0	2,439	2,584	99	1.60	29	30	-3,395	69	14.2 10.9
	Zone - 008		Zn Peak	1,480	17.0	24,239	29,302	978			30	-21,205	352	17.8 18.5

* This report does not display heating only systems.

System	Zone	Room **		Floor Area ft²	People #	Coil Cooling	Coil Cooling	Space Design	Air Changes ach/hr	VAV Minimum	VAV Minimum	Main Coil Heating	Heating Fan	Percent OA	
						Sensible Btu/h	Total Btu/h	Max SA cfm		SA cfm	%	Sensible Btu/h	Max SA cfm	Clg	Htg
	Zone - 008		Zn Block	1,480	17.0	23,831	29,042	975			30	-21,205	352	17.8	18.5
		140 - Office B8	Rm Peak	150	3.0	3,188	4,073	130	3.26	39	30	-2,484	39	18.4	20.4
		141 - Office B7	Rm Peak	150	3.0	3,547	4,432	149	3.73	45	30	-2,921	45	16.1	17.9
		150 - Office B6	Rm Peak	140	3.0	3,590	4,468	152	4.08	46	30	-2,987	46	15.4	17.1
		151 - Office B5	Rm Peak	180	3.0	4,235	5,104	178	3.71	53	30	-4,243	62	14.5	15.3
		159 - Office A3	Rm Peak	190	3.0	4,273	5,148	179	3.54	54	30	-4,339	65	14.7	15.3
		160 - Office A2	Rm Peak	190	3.0	4,249	5,124	179	3.52	54	30	-4,291	64	14.8	15.5
	Zone - 009		Zn Peak	1,000	18.0	23,152	28,418	968			30	-21,266	320	15.5	16.6
	Zone - 009		Zn Block	1,000	18.0	22,935	28,315	968			30	-21,266	320	15.5	16.6
		149 - Corridor 7 East	Rm Peak	186	0.0	1,579	1,712	64	1.28	19	30	-1,964	37	17.6	14.8
		152 - Corridor 6	Rm Peak	100	0.0	849	920	35	1.31	10	29	-1,200	25	17.6	13.3
		154 - Open Collab Area	Rm Peak	963	14.0	16,004	20,320	652	2.54	195	30	-12,406	195	19.6	21.8
		155 - Office B3	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		156 - Office B4	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		157 - Office B1	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		158 - Office B2	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		161 - Corridor 5	Rm Peak	95	0.0	807	874	34	1.33	10	29	-1,155	24	17.6	13.1
		167 - Future Office 7	Rm Peak	130	3.0	2,881	3,751	118	3.40	35	30	-2,247	35	19.3	21.5
		168 - Future Office 6	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
	Zone - 010		Zn Peak	2,074	32.0	36,359	46,134	1,486			30	-30,105	492	19.2	20.6
	Zone - 010		Zn Block	2,074	32.0	36,359	46,134	1,484			30	-30,105	492	19.2	20.6
		172 - Multi-Purpose Room East	Rm Peak	640	18.0	16,823	21,946	693	4.06	208	30	-13,193	208	18.5	20.6
	Zone - 011		Zn Peak	640	18.0	16,823	21,946	693			30	-13,193	208	18.5	20.6
	Zone - 011		Zn Block	640	18.0	16,823	21,946	693			30	-13,193	208	18.5	20.6
		135 - Office C2	Rm Peak	125	3.0	2,864	3,731	117	3.52	35	30	-2,237	35	19.2	21.3
		136 - Office C1	Rm Peak	125	3.0	2,864	3,731	117	3.52	35	30	-2,237	35	19.2	21.3
		137 - Corridor 9 North	Rm Peak	140	0.0	1,189	1,288	48	1.28	14	30	-1,555	30	17.6	14.2
		139 - Office B9	Rm Peak	140	3.0	2,914	3,792	119	3.19	36	30	-2,268	36	19.6	21.8
		142 - Corridor 8	Rm Peak	156	0.0	1,325	1,436	53	1.28	16	30	-1,697	33	17.6	14.5
		143 - Office B10	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		144 - Office B14	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		147 - Office B12	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		148 - Office B11	Rm Peak	120	3.0	2,848	3,711	117	3.65	35	30	-2,226	35	19.0	21.1
		149 - Corridor 7 North	Rm Peak	97	0.0	824	893	34	1.32	10	29	-1,173	24	17.6	13.2
		149 - Corridor 7 West	Rm Peak	50	0.0	425	460	23	1.70	5	23	-756	18	17.6	10.8
	Zone - 012		Zn Peak	1,313	21.0	23,795	30,176	980			30	-20,829	352	18.9	19.6
	Zone - 012		Zn Block	1,313	21.0	23,795	30,176	973			30	-20,829	352	18.9	19.6
		172 - Multi-Purpose Room West	Rm Peak	580	12.0	11,721	15,246	479	3.09	144	30	-9,113	144	19.8	22.0
	Zone - 013		Zn Peak	580	12.0	11,721	15,246	479			30	-9,113	144	19.8	22.0
	Zone - 013		Zn Block	580	12.0	11,721	15,246	479			30	-9,113	144	19.8	22.0
		129 - Office C4	Rm Peak	118	3.0	2,841	3,703	117	3.71	35	30	-2,222	35	18.9	21.0

* This report does not display heating only systems.



* This report does not display heating only systems.

SYSTEM SUMMARY

DESIGN AIRFLOW QUANTITIES

By MacDonald-Miller Facility Solutions

System Description	System Type	MAIN SYSTEM					Auxiliary System	Room
		Outside	Cooling	Heating	Return	Exhaust	Supply	Exhaust
		Airflow	Airflow	Airflow	Airflow	Airflow	Airflow	Airflow
		cfm	cfm	cfm	cfm	cfm	cfm	cfm
Alternative 1								
VAV AHU - 1st Floor	Parallel Fan Powered VAV, Htg Coil on Mixing Box Outlet	2,469	15,911	10,926	18,313	4,871	0	0
Totals		2,469	15,911	10,926	18,313	4,871	0	0

Note: Airflows on this report are not additive because they are each taken at the time of their respective peaks. To view the balanced system design airflows, see the appropriate Checksums report (Airflows section).

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

Alternative 1

ROOM		Room Outflows				Room Inflows						
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone	Room	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	104 - Board Room North	0	0	698	0	698	69	0	698	0	0	698
	105 - Furniture Storage	0	0	100	0	100	15	0	100	0	0	100
	106 - Archive	0	0	77	0	77	12	0	77	0	0	77
	107 - Mail Area	0	0	131	0	131	25	0	131	0	0	131
Zone - 001	Zn Tot/Ave	0	0	1,006	0	1,009	120	0	1,006	0	0	1,009
Zone - 001	Zn Block	0	0	1,009	0	1,009	120	0	1,009	0	0	1,009
	104 - Board Room South	0	0	880	0	880	110	0	880	0	0	880
Zone - 002	Zn Tot/Ave	0	0	880	0	880	110	0	880	0	0	880
Zone - 002	Zn Block	0	0	880	0	880	110	0	880	0	0	880
	101 - Reception	0	0	624	0	624	63	0	624	0	0	624
	103 - Reception Desk	0	0	111	0	111	16	0	111	0	0	111
Zone - 003	Zn Tot/Ave	0	0	736	0	736	80	0	736	0	0	736
Zone - 003	Zn Block	0	0	736	0	736	80	0	736	0	0	736
	117 - Fitness Room	0	0	816	0	816	83	0	816	0	0	816
	118 - Corridor 2	0	0	176	0	176	28	0	176	0	0	176
	119 - Storage	0	0	62	0	62	11	0	62	0	0	62
	120 - Mothers Room	0	0	79	0	79	15	0	79	0	0	79
	121 - Quiet Room	0	0	79	0	79	15	0	79	0	0	79
	122 - Booth Seating Area	0	0	284	0	284	95	0	284	0	0	284
Zone - 004	Zn Tot/Ave	0	0	1,496	0	1,496	247	0	1,496	0	0	1,496
Zone - 004	Zn Block	0	0	1,496	0	1,496	247	0	1,496	0	0	1,496
	162 - Meeting Room 2	0	0	846	0	846	82	0	846	0	0	846
Zone - 005	Zn Tot/Ave	0	0	846	0	846	82	0	846	0	0	846
Zone - 005	Zn Block	0	0	846	0	846	82	0	846	0	0	846
	163 - Office A1	0	0	326	0	326	29	0	326	0	0	326
Zone - 006	Zn Tot/Ave	0	0	326	0	326	29	0	326	0	0	326
Zone - 006	Zn Block	0	0	326	0	326	29	0	326	0	0	326
	164 - Meeting Room 1	0	0	481	0	481	70	0	481	0	0	481
Zone - 007	Zn Tot/Ave	0	0	481	0	481	70	0	481	0	0	481
Zone - 007	Zn Block	0	0	481	0	481	70	0	481	0	0	481
	165 - EOC	0	0	720	0	720	133	0	720	0	0	720
	111 - Library	0	0	34	0	34	6	0	34	0	0	34
	112 - General Storage	0	0	119	0	119	21	0	119	0	0	119
	166 - Corridor 3	0	0	96	0	96	14	0	96	0	0	96

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

ROOM		Room Outflows					Room Inflows					
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone	Room	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
Zone - 008	Zn Tot/Ave	0	0	968	0	959	174	0	968	0	0	959
	Zn Block	0	0	959	0	959	174	0	959	0	0	959
	160 - Office A2	0	0	172	0	172	26	0	172	0	0	172
	159 - Office A3	0	0	173	0	173	26	0	173	0	0	173
	151 - Office B5	0	0	172	0	172	26	0	172	0	0	172
	150 - Office B6	0	0	146	0	146	23	0	146	0	0	146
	141 - Office B7	0	0	144	0	144	24	0	144	0	0	144
	140 - Office B8	0	0	129	0	129	24	0	129	0	0	129
Zone - 009	Zn Tot/Ave	0	0	936	0	932	150	0	936	0	0	932
	Zn Block	0	0	932	0	932	150	0	932	0	0	932
	156 - Office B4	0	0	117	0	117	22	0	117	0	0	117
	155 - Office B3	0	0	117	0	117	22	0	117	0	0	117
	157 - Office B1	0	0	117	0	117	22	0	117	0	0	117
	158 - Office B2	0	0	117	0	117	22	0	117	0	0	117
	154 - Open Collab Area	0	0	651	0	651	128	0	651	0	0	651
	149 - Corridor 7 East	0	0	63	0	63	11	0	63	0	0	63
Zone - 010	161 - Corridor 5	0	0	32	0	32	6	0	32	0	0	32
	152 - Corridor 6	0	0	34	0	34	6	0	34	0	0	34
	168 - Future Office 6	0	0	117	0	117	22	0	117	0	0	117
	167 - Future Office 7	0	0	118	0	118	23	0	118	0	0	118
	Zn Tot/Ave	0	0	1,483	0	1,483	284	0	1,483	0	0	1,483
	Zn Block	0	0	1,483	0	1,483	284	0	1,483	0	0	1,483
	172 - Multi-Purpose Room East	0	0	692	0	692	128	0	692	0	0	692
	Zn Tot/Ave	0	0	692	0	692	128	0	692	0	0	692
Zone - 011	Zn Block	0	0	692	0	692	128	0	692	0	0	692
	148 - Office B11	0	0	117	0	117	22	0	117	0	0	117
	139 - Office B9	0	0	119	0	119	23	0	119	0	0	119
	135 - Office C2	0	0	117	0	117	23	0	117	0	0	117
	136 - Office C1	0	0	117	0	117	23	0	117	0	0	117
	143 - Office B10	0	0	117	0	117	22	0	117	0	0	117
	144 - Office B14	0	0	117	0	117	22	0	117	0	0	117
	147 - Office B12	0	0	117	0	117	22	0	117	0	0	117
	149 - Corridor 7 North	0	0	33	0	33	6	0	33	0	0	33
	149 - Corridor 7 West	0	0	17	0	17	3	0	17	0	0	17
	142 - Corridor 8	0	0	53	0	53	9	0	53	0	0	53
	137 - Corridor 9 North	0	0	48	0	48	8	0	48	0	0	48

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

ROOM		Room Outflows					Room Inflows					
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone	Room	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
Zone - 012	Zn Tot/Ave	0	0	972	0	972	184	0	972	0	0	972
Zone - 012	Zn Block	0	0	972	0	972	184	0	972	0	0	972
172 - Multi-Purpose Room Wes		0	0	478	0	478	95	0	478	0	0	478
Zone - 013	Zn Tot/Ave	0	0	478	0	478	95	0	478	0	0	478
Zone - 013	Zn Block	0	0	478	0	478	95	0	478	0	0	478
130 - Office C3		0	0	117	0	117	22	0	117	0	0	117
129 - Office C4		0	0	117	0	117	22	0	117	0	0	117
169 - Future Office 5		0	0	117	0	117	22	0	117	0	0	117
145 - Office B13		0	0	117	0	117	22	0	117	0	0	117
146 - Copy Print		0	0	180	0	180	13	0	180	0	0	180
137 - Corridor 9 South		0	0	82	0	82	14	0	82	0	0	82
171 - Corridor 4 East		0	0	34	0	34	6	0	34	0	0	34
171 - Corridor 4 North		0	0	71	0	71	12	0	71	0	0	71
171 - Corridor 4 South		0	0	90	0	90	13	0	90	0	0	90
170 - Future Office 4		0	0	117	0	117	22	0	117	0	0	117
Zone - 014	Zn Tot/Ave	0	0	1,040	0	1,039	169	0	1,040	0	0	1,039
Zone - 014	Zn Block	0	0	1,039	0	1,039	169	0	1,039	0	0	1,039
138 - Open Meeting Area		0	0	1,199	0	1,199	119	0	1,199	0	0	1,199
Zone - 015	Zn Tot/Ave	0	0	1,199	0	1,199	119	0	1,199	0	0	1,199
Zone - 015	Zn Block	0	0	1,199	0	1,199	119	0	1,199	0	0	1,199
127 - Future Office 3		0	0	375	0	375	25	0	375	0	0	375
128 - Future Office 2		0	0	375	0	375	25	0	375	0	0	375
131 - Future Office 1		0	0	375	0	375	25	0	375	0	0	375
132 - Office B16		0	0	167	0	167	24	0	167	0	0	167
133 - Office B15		0	0	171	0	171	25	0	171	0	0	171
Zone - 016	Zn Tot/Ave	0	0	1,463	0	1,463	122	0	1,463	0	0	1,463
Zone - 016	Zn Block	0	0	1,463	0	1,463	122	0	1,463	0	0	1,463
126 - AV Studio		0	0	554	0	554	97	0	554	0	0	554
Zone - 017	Zn Tot/Ave	0	0	554	0	554	97	0	554	0	0	554
Zone - 017	Zn Block	0	0	554	0	554	97	0	554	0	0	554
125 - AV Control Room		0	0	241	0	241	9	0	241	0	0	241
Zone - 018	Zn Tot/Ave	0	0	241	0	241	9	0	241	0	0	241
Zone - 018	Zn Block	0	0	241	0	241	9	0	241	0	0	241
124 - Break Room		0	0	705	0	705	118	0	705	0	0	705
Zone - 019	Zn Tot/Ave	0	0	705	0	705	118	0	705	0	0	705
Zone - 019	Zn Block	0	0	705	0	705	118	0	705	0	0	705

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

ROOM		Room Outflows					Room Inflows					
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
System Zone Room												
123 - Open Collab Area 3		0	0	465	0	465	82	0	465	0	0	465
Zone - 020	Zn Tot/Ave	0	0	465	0	465	82	0	465	0	0	465
Zone - 020	Zn Block	0	0	465	0	465	82	0	465	0	0	465
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	16,969	0	15,374	2,469	0	16,969	0	0	15,374
VAV AHU - 1st Floor	Sys Block	0	0	15,374	0	15,374	2,469	0	15,374	0	0	15,374

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan cfm	Secondary Fan cfm	Terminal Box cfm	Supply Diffuser cfm	Leakage to Room cfm	Leakage to RA cfm	System Exhaust cfm	Plenum cfm	Run Around cfm	Ducted + Corridor cfm	System Return cfm
System Zone Room												
104 - Board Room North		698	0	698	698	0	0	69	698	0	0	698
105 - Furniture Storage		100	0	100	100	0	0	15	100	0	0	100
106 - Archive		77	0	77	77	0	0	12	77	0	0	77
107 - Mail Area		131	0	131	131	0	0	25	131	0	0	131
Zone - 001	Zn Tot/Ave	1,006	0	1,006	1,006	0	0	120	1,006	0	0	1,009
Zone - 001	Zn Block	1,009	0	1,009	1,009	0	0	120	1,009	0	0	1,009
104 - Board Room South		880	0	880	880	0	0	110	880	0	0	880
Zone - 002	Zn Tot/Ave	880	0	880	880	0	0	110	880	0	0	880
Zone - 002	Zn Block	880	0	880	880	0	0	110	880	0	0	880
101 - Reception		624	0	624	624	0	0	63	624	0	0	624
103 - Reception Desk		111	0	111	111	0	0	16	111	0	0	111
Zone - 003	Zn Tot/Ave	736	0	736	736	0	0	80	736	0	0	736
Zone - 003	Zn Block	736	0	736	736	0	0	80	736	0	0	736
117 - Fitness Room		816	0	816	816	0	0	83	816	0	0	816
118 - Corridor 2		176	0	176	176	0	0	28	176	0	0	176
119 - Storage		62	0	62	62	0	0	11	62	0	0	62
120 - Mothers Room		79	0	79	79	0	0	15	79	0	0	79
121 - Quiet Room		79	0	79	79	0	0	15	79	0	0	79
122 - Booth Seating Area		284	0	284	284	0	0	95	284	0	0	284
Zone - 004	Zn Tot/Ave	1,496	0	1,496	1,496	0	0	247	1,496	0	0	1,496
Zone - 004	Zn Block	1,496	0	1,496	1,496	0	0	247	1,496	0	0	1,496
162 - Meeting Room 2		846	0	846	846	0	0	82	846	0	0	846
Zone - 005	Zn Tot/Ave	846	0	846	846	0	0	82	846	0	0	846
Zone - 005	Zn Block	846	0	846	846	0	0	82	846	0	0	846
163 - Office A1		326	0	326	326	0	0	29	326	0	0	326
Zone - 006	Zn Tot/Ave	326	0	326	326	0	0	29	326	0	0	326
Zone - 006	Zn Block	326	0	326	326	0	0	29	326	0	0	326
164 - Meeting Room 1		481	0	481	481	0	0	70	481	0	0	481
Zone - 007	Zn Tot/Ave	481	0	481	481	0	0	70	481	0	0	481
Zone - 007	Zn Block	481	0	481	481	0	0	70	481	0	0	481
165 - EOC		720	0	720	720	0	0	133	720	0	0	720
111 - Library		34	0	34	34	0	0	6	34	0	0	34
112 - General Storage		119	0	119	119	0	0	21	119	0	0	119
166 - Corridor 3		96	0	96	96	0	0	14	96	0	0	96
Zone - 008	Zn Tot/Ave	968	0	968	968	0	0	174	968	0	0	959
Zone - 008	Zn Block	959	0	959	959	0	0	174	959	0	0	959

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan cfm	Secondary Fan cfm	Terminal Box cfm	Supply Diffuser cfm	Leakage to Room cfm	Leakage to RA cfm	System Exhaust cfm	Plenum cfm	Run Around cfm	Ducted + Corridor cfm	System Return cfm
System Zone Room												
160 - Office A2		172	0	172	172	0	0	26	172	0	0	172
159 - Office A3		173	0	173	173	0	0	26	173	0	0	173
151 - Office B5		172	0	172	172	0	0	26	172	0	0	172
150 - Office B6		146	0	146	146	0	0	23	146	0	0	146
141 - Office B7		144	0	144	144	0	0	24	144	0	0	144
140 - Office B8		129	0	129	129	0	0	24	129	0	0	129
Zone - 009	Zn Tot/Ave	936	0	936	936	0	0	150	936	0	0	932
Zone - 009	Zn Block	932	0	932	932	0	0	150	932	0	0	932
156 - Office B4		117	0	117	117	0	0	22	117	0	0	117
155 - Office B3		117	0	117	117	0	0	22	117	0	0	117
157 - Office B1		117	0	117	117	0	0	22	117	0	0	117
158 - Office B2		117	0	117	117	0	0	22	117	0	0	117
154 - Open Collab Area		651	0	651	651	0	0	128	651	0	0	651
149 - Corridor 7 East		63	0	63	63	0	0	11	63	0	0	63
161 - Corridor 5		32	0	32	32	0	0	6	32	0	0	32
152 - Corridor 6		34	0	34	34	0	0	6	34	0	0	34
168 - Future Office 6		117	0	117	117	0	0	22	117	0	0	117
167 - Future Office 7		118	0	118	118	0	0	23	118	0	0	118
Zone - 010	Zn Tot/Ave	1,483	0	1,483	1,483	0	0	284	1,483	0	0	1,483
Zone - 010	Zn Block	1,483	0	1,483	1,483	0	0	284	1,483	0	0	1,483
172 - Multi-Purpose Room East		692	0	692	692	0	0	128	692	0	0	692
Zone - 011	Zn Tot/Ave	692	0	692	692	0	0	128	692	0	0	692
Zone - 011	Zn Block	692	0	692	692	0	0	128	692	0	0	692
148 - Office B11		117	0	117	117	0	0	22	117	0	0	117
139 - Office B9		119	0	119	119	0	0	23	119	0	0	119
135 - Office C2		117	0	117	117	0	0	23	117	0	0	117
136 - Office C1		117	0	117	117	0	0	23	117	0	0	117
143 - Office B10		117	0	117	117	0	0	22	117	0	0	117
144 - Office B14		117	0	117	117	0	0	22	117	0	0	117
147 - Office B12		117	0	117	117	0	0	22	117	0	0	117
149 - Corridor 7 North		33	0	33	33	0	0	6	33	0	0	33
149 - Corridor 7 West		17	0	17	17	0	0	3	17	0	0	17
142 - Corridor 8		53	0	53	53	0	0	9	53	0	0	53
137 - Corridor 9 North		48	0	48	48	0	0	8	48	0	0	48
Zone - 012	Zn Tot/Ave	972	0	972	972	0	0	184	972	0	0	972
Zone - 012	Zn Block	972	0	972	972	0	0	184	972	0	0	972

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan cfm	Secondary Fan cfm	Terminal Box cfm	Supply Diffuser cfm	Leakage to Room cfm	Leakage to RA cfm	System Exhaust cfm	Plenum cfm	Run Around cfm	Ducted + Corridor cfm	System Return cfm
System Zone Room												
172 - Multi-Purpose Room Wes		478	0	478	478	0	0	95	478	0	0	478
Zone - 013	Zn Tot/Ave	478	0	478	478	0	0	95	478	0	0	478
Zone - 013	Zn Block	478	0	478	478	0	0	95	478	0	0	478
130 - Office C3		117	0	117	117	0	0	22	117	0	0	117
129 - Office C4		117	0	117	117	0	0	22	117	0	0	117
169 - Future Office 5		117	0	117	117	0	0	22	117	0	0	117
145 - Office B13		117	0	117	117	0	0	22	117	0	0	117
146 - Copy Print		180	0	180	180	0	0	13	180	0	0	180
137 - Corridor 9 South		82	0	82	82	0	0	14	82	0	0	82
171 - Corridor 4 East		34	0	34	34	0	0	6	34	0	0	34
171 - Corridor 4 North		71	0	71	71	0	0	12	71	0	0	71
171 - Corridor 4 South		90	0	90	90	0	0	13	90	0	0	90
170 - Future Office 4		117	0	117	117	0	0	22	117	0	0	117
Zone - 014	Zn Tot/Ave	1,040	0	1,040	1,040	0	0	169	1,040	0	0	1,039
Zone - 014	Zn Block	1,039	0	1,039	1,039	0	0	169	1,039	0	0	1,039
138 - Open Meeting Area		1,199	0	1,199	1,199	0	0	119	1,199	0	0	1,199
Zone - 015	Zn Tot/Ave	1,199	0	1,199	1,199	0	0	119	1,199	0	0	1,199
Zone - 015	Zn Block	1,199	0	1,199	1,199	0	0	119	1,199	0	0	1,199
127 - Future Office 3		375	0	375	375	0	0	25	375	0	0	375
128 - Future Office 2		375	0	375	375	0	0	25	375	0	0	375
131 - Future Office 1		375	0	375	375	0	0	25	375	0	0	375
132 - Office B16		167	0	167	167	0	0	24	167	0	0	167
133 - Office B15		171	0	171	171	0	0	25	171	0	0	171
Zone - 016	Zn Tot/Ave	1,463	0	1,463	1,463	0	0	122	1,463	0	0	1,463
Zone - 016	Zn Block	1,463	0	1,463	1,463	0	0	122	1,463	0	0	1,463
126 - AV Studio		554	0	554	554	0	0	97	554	0	0	554
Zone - 017	Zn Tot/Ave	554	0	554	554	0	0	97	554	0	0	554
Zone - 017	Zn Block	554	0	554	554	0	0	97	554	0	0	554
125 - AV Control Room		241	0	241	241	0	0	9	241	0	0	241
Zone - 018	Zn Tot/Ave	241	0	241	241	0	0	9	241	0	0	241
Zone - 018	Zn Block	241	0	241	241	0	0	9	241	0	0	241
124 - Break Room		705	0	705	705	0	0	118	705	0	0	705
Zone - 019	Zn Tot/Ave	705	0	705	705	0	0	118	705	0	0	705
Zone - 019	Zn Block	705	0	705	705	0	0	118	705	0	0	705
123 - Open Collab Area 3		465	0	465	465	0	0	82	465	0	0	465
Zone - 020	Zn Tot/Ave	465	0	465	465	0	0	82	465	0	0	465

Airflow Balance

at Time of Cooling Coil Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan	Secondary Fan	Terminal Box	Supply Diffuser	Leakage to Room	Leakage to RA	System Exhaust	Plenum	Run Around	Ducted + Corridor	System Return
System Zone Room		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
Zone - 020	Zn Block	465	0	465	465	0	0	82	465	0	0	465
VAV AHU - 1st Floor	Sys Tot/Ave	16,969	0	16,969	16,969	0	0	2,469	16,969	0	0	15,374
VAV AHU - 1st Floor	Sys Block	15,374	0	15,374	15,374	0	0	2,469	15,374	0	0	15,374

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

Alternative 1

ROOM	Room Outflows					Room Inflows					
	Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone Room	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
104 - Board Room North	0	0	698	0	698	69	0	698	0	0	698
105 - Furnature Storage	0	0	102	0	102	15	0	102	0	0	102
106 - Archive	0	0	79	0	79	12	0	79	0	0	79
107 - Mail Area	0	0	133	0	133	25	0	133	0	0	133
Zone - 001 Zn Tot/Ave	0	0	1,013	0	1,009	120	0	1,013	0	0	1,009
Zone - 001 Zn Block	0	0	1,009	0	1,009	120	0	1,009	0	0	1,009
104 - Board Room South	0	0	902	0	902	110	0	902	0	0	902
Zone - 002 Zn Tot/Ave	0	0	902	0	902	110	0	902	0	0	902
Zone - 002 Zn Block	0	0	902	0	902	110	0	902	0	0	902
101 - Reception	0	0	624	0	624	63	0	624	0	0	624
103 - Reception Desk	0	0	111	0	111	16	0	111	0	0	111
Zone - 003 Zn Tot/Ave	0	0	736	0	736	80	0	736	0	0	736
Zone - 003 Zn Block	0	0	736	0	736	80	0	736	0	0	736
117 - Fitness Room	0	0	817	0	817	83	0	817	0	0	817
118 - Corridor 2	0	0	179	0	179	28	0	179	0	0	179
119 - Storage	0	0	62	0	62	11	0	62	0	0	62
120 - Mothers Room	0	0	79	0	79	15	0	79	0	0	79
121 - Quiet Room	0	0	79	0	79	15	0	79	0	0	79
122 - Booth Seating Area	0	0	284	0	284	95	0	284	0	0	284
Zone - 004 Zn Tot/Ave	0	0	1,500	0	1,500	247	0	1,500	0	0	1,500
Zone - 004 Zn Block	0	0	1,500	0	1,500	247	0	1,500	0	0	1,500
162 - Meeting Room 2	0	0	846	0	846	82	0	846	0	0	846
Zone - 005 Zn Tot/Ave	0	0	846	0	846	82	0	846	0	0	846
Zone - 005 Zn Block	0	0	846	0	846	82	0	846	0	0	846
163 - Office A1	0	0	328	0	328	29	0	328	0	0	328
Zone - 006 Zn Tot/Ave	0	0	328	0	328	29	0	328	0	0	328
Zone - 006 Zn Block	0	0	328	0	328	29	0	328	0	0	328
164 - Meeting Room 1	0	0	484	0	484	70	0	484	0	0	484
Zone - 007 Zn Tot/Ave	0	0	484	0	484	70	0	484	0	0	484
Zone - 007 Zn Block	0	0	484	0	484	70	0	484	0	0	484
165 - EOC	0	0	726	0	726	133	0	726	0	0	726
111 - Library	0	0	34	0	34	6	0	34	0	0	34
112 - General Storage	0	0	119	0	119	21	0	119	0	0	119

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

ROOM	Room Outflows					Room Inflows					
	Nominal Room Exhaust cfm	Balanced Room Exhaust cfm	Return Airflow cfm	Adjacent Airflow Out Of Space cfm	Total Outflows cfm	OA Mixed With Supply Airflow cfm	OA Vented Directly into Space cfm	Supply Airflow cfm	Infiltration cfm	Adjacent Airflow into Space cfm	Total Inflows cfm
System Zone Room											
166 - Corridor 3	0	0	98	0	98	14	0	98	0	0	98
Zone - 008 Zn Tot/Ave	0	0	977	0	975	174	0	977	0	0	975
Zone - 008 Zn Block	0	0	975	0	975	174	0	975	0	0	975
160 - Office A2	0	0	179	0	179	26	0	179	0	0	179
159 - Office A3	0	0	179	0	179	26	0	179	0	0	179
151 - Office B5	0	0	178	0	178	26	0	178	0	0	178
150 - Office B6	0	0	152	0	152	23	0	152	0	0	152
141 - Office B7	0	0	149	0	149	24	0	149	0	0	149
140 - Office B8	0	0	130	0	130	24	0	130	0	0	130
Zone - 009 Zn Tot/Ave	0	0	968	0	968	150	0	968	0	0	968
Zone - 009 Zn Block	0	0	968	0	968	150	0	968	0	0	968
156 - Office B4	0	0	117	0	117	22	0	117	0	0	117
155 - Office B3	0	0	117	0	117	22	0	117	0	0	117
157 - Office B1	0	0	117	0	117	22	0	117	0	0	117
158 - Office B2	0	0	117	0	117	22	0	117	0	0	117
154 - Open Collab Area	0	0	652	0	652	128	0	652	0	0	652
149 - Corridor 7 East	0	0	64	0	64	11	0	64	0	0	64
161 - Corridor 5	0	0	32	0	32	6	0	32	0	0	32
152 - Corridor 6	0	0	34	0	34	6	0	34	0	0	34
168 - Future Office 6	0	0	117	0	117	22	0	117	0	0	117
167 - Future Office 7	0	0	118	0	118	23	0	118	0	0	118
Zone - 010 Zn Tot/Ave	0	0	1,484	0	1,484	284	0	1,484	0	0	1,484
Zone - 010 Zn Block	0	0	1,484	0	1,484	284	0	1,484	0	0	1,484
172 - Multi-Purpose Room East	0	0	693	0	693	128	0	693	0	0	693
Zone - 011 Zn Tot/Ave	0	0	693	0	693	128	0	693	0	0	693
Zone - 011 Zn Block	0	0	693	0	693	128	0	693	0	0	693
148 - Office B11	0	0	117	0	117	22	0	117	0	0	117
139 - Office B9	0	0	119	0	119	23	0	119	0	0	119
135 - Office C2	0	0	117	0	117	23	0	117	0	0	117
136 - Office C1	0	0	117	0	117	23	0	117	0	0	117
143 - Office B10	0	0	117	0	117	22	0	117	0	0	117
144 - Office B14	0	0	117	0	117	22	0	117	0	0	117
147 - Office B12	0	0	117	0	117	22	0	117	0	0	117
149 - Corridor 7 North	0	0	33	0	33	6	0	33	0	0	33
149 - Corridor 7 West	0	0	17	0	17	3	0	17	0	0	17

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

ROOM		Room Outflows				Room Inflows						
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone Room		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
142 - Corridor 8		0	0	53	0	53	9	0	53	0	0	53
137 - Corridor 9 North		0	0	48	0	48	8	0	48	0	0	48
Zone - 012	Zn Tot/Ave	0	0	973	0	973	184	0	973	0	0	973
Zone - 012	Zn Block	0	0	973	0	973	184	0	973	0	0	973
172 - Multi-Purpose Room West		0	0	479	0	479	95	0	479	0	0	479
Zone - 013	Zn Tot/Ave	0	0	479	0	479	95	0	479	0	0	479
Zone - 013	Zn Block	0	0	479	0	479	95	0	479	0	0	479
130 - Office C3		0	0	117	0	117	22	0	117	0	0	117
129 - Office C4		0	0	117	0	117	22	0	117	0	0	117
169 - Future Office 5		0	0	117	0	117	22	0	117	0	0	117
145 - Office B13		0	0	117	0	117	22	0	117	0	0	117
146 - Copy Print		0	0	180	0	180	13	0	180	0	0	180
137 - Corridor 9 South		0	0	82	0	82	14	0	82	0	0	82
171 - Corridor 4 East		0	0	34	0	34	6	0	34	0	0	34
171 - Corridor 4 North		0	0	71	0	71	12	0	71	0	0	71
171 - Corridor 4 South		0	0	92	0	92	13	0	92	0	0	92
170 - Future Office 4		0	0	117	0	117	22	0	117	0	0	117
Zone - 014	Zn Tot/Ave	0	0	1,043	0	1,043	169	0	1,043	0	0	1,043
Zone - 014	Zn Block	0	0	1,043	0	1,043	169	0	1,043	0	0	1,043
138 - Open Meeting Area		0	0	1,233	0	1,233	119	0	1,233	0	0	1,233
Zone - 015	Zn Tot/Ave	0	0	1,233	0	1,233	119	0	1,233	0	0	1,233
Zone - 015	Zn Block	0	0	1,233	0	1,233	119	0	1,233	0	0	1,233
127 - Future Office 3		0	0	375	0	375	25	0	375	0	0	375
128 - Future Office 2		0	0	375	0	375	25	0	375	0	0	375
131 - Future Office 1		0	0	375	0	375	25	0	375	0	0	375
132 - Office B16		0	0	167	0	167	24	0	167	0	0	167
133 - Office B15		0	0	171	0	171	25	0	171	0	0	171
Zone - 016	Zn Tot/Ave	0	0	1,463	0	1,463	122	0	1,463	0	0	1,463
Zone - 016	Zn Block	0	0	1,463	0	1,463	122	0	1,463	0	0	1,463
126 - AV Studio		0	0	570	0	570	97	0	570	0	0	570
Zone - 017	Zn Tot/Ave	0	0	570	0	570	97	0	570	0	0	570
Zone - 017	Zn Block	0	0	570	0	570	97	0	570	0	0	570
125 - AV Control Room		0	0	241	0	241	9	0	241	0	0	241
Zone - 018	Zn Tot/Ave	0	0	241	0	241	9	0	241	0	0	241
Zone - 018	Zn Block	0	0	241	0	241	9	0	241	0	0	241

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

ROOM		Room Outflows				Room Inflows						
		Nominal Room Exhaust	Balanced Room Exhaust	Return Airflow	Adjacent Airflow Out Of Space	Total Outflows	OA Mixed With Supply Airflow	OA Vented Directly into Space	Supply Airflow	Infiltration	Adjacent Airflow into Space	Total Inflows
System Zone Room		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
124 - Break Room		0	0	706	0	706	118	0	706	0	0	706
Zone - 019	Zn Tot/Ave	0	0	706	0	706	118	0	706	0	0	706
Zone - 019	Zn Block	0	0	706	0	706	118	0	706	0	0	706
123 - Open Collab Area 3		0	0	466	0	466	82	0	466	0	0	466
Zone - 020	Zn Tot/Ave	0	0	466	0	466	82	0	466	0	0	466
Zone - 020	Zn Block	0	0	466	0	466	82	0	466	0	0	466
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	17,106	0	15,911	2,469	0	17,106	0	0	15,911
VAV AHU - 1st Floor	Sys Block	0	0	15,911	0	15,911	2,469	0	15,911	0	0	15,911

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan	Secondary Fan	Terminal Box	Supply Diffuser	Leakage to Room	Leakage to RA	System Exhaust	Plenum	Run Around	Ducted + Corridor	System Return
System	Zone Room	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	104 - Board Room North	698	0	698	698	0	0	69	698	0	0	698
	105 - Furniture Storage	102	0	102	102	0	0	15	102	0	0	102
	106 - Archive	79	0	79	79	0	0	12	79	0	0	79
	107 - Mail Area	133	0	133	133	0	0	25	133	0	0	133
	Zone - 001 Zn Tot/Ave	1,013	0	1,013	1,013	0	0	120	1,013	0	0	1,009
	Zone - 001 Zn Block	1,009	0	1,009	1,009	0	0	120	1,009	0	0	1,009
	104 - Board Room South	902	0	902	902	0	0	110	902	0	0	902
	Zone - 002 Zn Tot/Ave	902	0	902	902	0	0	110	902	0	0	902
	Zone - 002 Zn Block	902	0	902	902	0	0	110	902	0	0	902
	101 - Reception	624	0	624	624	0	0	63	624	0	0	624
	103 - Reception Desk	111	0	111	111	0	0	16	111	0	0	111
	Zone - 003 Zn Tot/Ave	736	0	736	736	0	0	80	736	0	0	736
	Zone - 003 Zn Block	736	0	736	736	0	0	80	736	0	0	736
	117 - Fitness Room	817	0	817	817	0	0	83	817	0	0	817
	118 - Corridor 2	179	0	179	179	0	0	28	179	0	0	179
	119 - Storage	62	0	62	62	0	0	11	62	0	0	62
	120 - Mothers Room	79	0	79	79	0	0	15	79	0	0	79
	121 - Quiet Room	79	0	79	79	0	0	15	79	0	0	79
	122 - Booth Seating Area	284	0	284	284	0	0	95	284	0	0	284
	Zone - 004 Zn Tot/Ave	1,500	0	1,500	1,500	0	0	247	1,500	0	0	1,500
	Zone - 004 Zn Block	1,500	0	1,500	1,500	0	0	247	1,500	0	0	1,500
	162 - Meeting Room 2	846	0	846	846	0	0	82	846	0	0	846
	Zone - 005 Zn Tot/Ave	846	0	846	846	0	0	82	846	0	0	846
	Zone - 005 Zn Block	846	0	846	846	0	0	82	846	0	0	846
	163 - Office A1	328	0	328	328	0	0	29	328	0	0	328
	Zone - 006 Zn Tot/Ave	328	0	328	328	0	0	29	328	0	0	328
	Zone - 006 Zn Block	328	0	328	328	0	0	29	328	0	0	328
	164 - Meeting Room 1	484	0	484	484	0	0	70	484	0	0	484
	Zone - 007 Zn Tot/Ave	484	0	484	484	0	0	70	484	0	0	484
	Zone - 007 Zn Block	484	0	484	484	0	0	70	484	0	0	484
	165 - EOC	726	0	726	726	0	0	133	726	0	0	726
	111 - Library	34	0	34	34	0	0	6	34	0	0	34
	112 - General Storage	119	0	119	119	0	0	21	119	0	0	119
	166 - Corridor 3	98	0	98	98	0	0	14	98	0	0	98
	Zone - 008 Zn Tot/Ave	977	0	977	977	0	0	174	977	0	0	975
	Zone - 008 Zn Block	975	0	975	975	0	0	174	975	0	0	975

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan cfm	Secondary Fan cfm	Terminal Box cfm	Supply Diffuser cfm	Leakage to Room cfm	Leakage to RA cfm	System Exhaust cfm	Plenum cfm	Run Around cfm	Ducted + Corridor cfm	System Return cfm
System Zone Room												
160 - Office A2		179	0	179	179	0	0	26	179	0	0	179
159 - Office A3		179	0	179	179	0	0	26	179	0	0	179
151 - Office B5		178	0	178	178	0	0	26	178	0	0	178
150 - Office B6		152	0	152	152	0	0	23	152	0	0	152
141 - Office B7		149	0	149	149	0	0	24	149	0	0	149
140 - Office B8		130	0	130	130	0	0	24	130	0	0	130
Zone - 009	Zn Tot/Ave	968	0	968	968	0	0	150	968	0	0	968
Zone - 009	Zn Block	968	0	968	968	0	0	150	968	0	0	968
156 - Office B4		117	0	117	117	0	0	22	117	0	0	117
155 - Office B3		117	0	117	117	0	0	22	117	0	0	117
157 - Office B1		117	0	117	117	0	0	22	117	0	0	117
158 - Office B2		117	0	117	117	0	0	22	117	0	0	117
154 - Open Collab Area		652	0	652	652	0	0	128	652	0	0	652
149 - Corridor 7 East		64	0	64	64	0	0	11	64	0	0	64
161 - Corridor 5		32	0	32	32	0	0	6	32	0	0	32
152 - Corridor 6		34	0	34	34	0	0	6	34	0	0	34
168 - Future Office 6		117	0	117	117	0	0	22	117	0	0	117
167 - Future Office 7		118	0	118	118	0	0	23	118	0	0	118
Zone - 010	Zn Tot/Ave	1,484	0	1,484	1,484	0	0	284	1,484	0	0	1,484
Zone - 010	Zn Block	1,484	0	1,484	1,484	0	0	284	1,484	0	0	1,484
172 - Multi-Purpose Room East		693	0	693	693	0	0	128	693	0	0	693
Zone - 011	Zn Tot/Ave	693	0	693	693	0	0	128	693	0	0	693
Zone - 011	Zn Block	693	0	693	693	0	0	128	693	0	0	693
148 - Office B11		117	0	117	117	0	0	22	117	0	0	117
139 - Office B9		119	0	119	119	0	0	23	119	0	0	119
135 - Office C2		117	0	117	117	0	0	23	117	0	0	117
136 - Office C1		117	0	117	117	0	0	23	117	0	0	117
143 - Office B10		117	0	117	117	0	0	22	117	0	0	117
144 - Office B14		117	0	117	117	0	0	22	117	0	0	117
147 - Office B12		117	0	117	117	0	0	22	117	0	0	117
149 - Corridor 7 North		33	0	33	33	0	0	6	33	0	0	33
149 - Corridor 7 West		17	0	17	17	0	0	3	17	0	0	17
142 - Corridor 8		53	0	53	53	0	0	9	53	0	0	53
137 - Corridor 9 North		48	0	48	48	0	0	8	48	0	0	48
Zone - 012	Zn Tot/Ave	973	0	973	973	0	0	184	973	0	0	973
Zone - 012	Zn Block	973	0	973	973	0	0	184	973	0	0	973

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan cfm	Secondary Fan cfm	Terminal Box cfm	Supply Diffuser cfm	Leakage to Room cfm	Leakage to RA cfm	System Exhaust cfm	Plenum cfm	Run Around cfm	Ducted + Corridor cfm	System Return cfm
System Zone Room												
172 - Multi-Purpose Room Wes		479	0	479	479	0	0	95	479	0	0	479
Zone - 013	Zn Tot/Ave	479	0	479	479	0	0	95	479	0	0	479
Zone - 013	Zn Block	479	0	479	479	0	0	95	479	0	0	479
130 - Office C3		117	0	117	117	0	0	22	117	0	0	117
129 - Office C4		117	0	117	117	0	0	22	117	0	0	117
169 - Future Office 5		117	0	117	117	0	0	22	117	0	0	117
145 - Office B13		117	0	117	117	0	0	22	117	0	0	117
146 - Copy Print		180	0	180	180	0	0	13	180	0	0	180
137 - Corridor 9 South		82	0	82	82	0	0	14	82	0	0	82
171 - Corridor 4 East		34	0	34	34	0	0	6	34	0	0	34
171 - Corridor 4 North		71	0	71	71	0	0	12	71	0	0	71
171 - Corridor 4 South		92	0	92	92	0	0	13	92	0	0	92
170 - Future Office 4		117	0	117	117	0	0	22	117	0	0	117
Zone - 014	Zn Tot/Ave	1,043	0	1,043	1,043	0	0	169	1,043	0	0	1,043
Zone - 014	Zn Block	1,043	0	1,043	1,043	0	0	169	1,043	0	0	1,043
138 - Open Meeting Area		1,233	0	1,233	1,233	0	0	119	1,233	0	0	1,233
Zone - 015	Zn Tot/Ave	1,233	0	1,233	1,233	0	0	119	1,233	0	0	1,233
Zone - 015	Zn Block	1,233	0	1,233	1,233	0	0	119	1,233	0	0	1,233
127 - Future Office 3		375	0	375	375	0	0	25	375	0	0	375
128 - Future Office 2		375	0	375	375	0	0	25	375	0	0	375
131 - Future Office 1		375	0	375	375	0	0	25	375	0	0	375
132 - Office B16		167	0	167	167	0	0	24	167	0	0	167
133 - Office B15		171	0	171	171	0	0	25	171	0	0	171
Zone - 016	Zn Tot/Ave	1,463	0	1,463	1,463	0	0	122	1,463	0	0	1,463
Zone - 016	Zn Block	1,463	0	1,463	1,463	0	0	122	1,463	0	0	1,463
126 - AV Studio		570	0	570	570	0	0	97	570	0	0	570
Zone - 017	Zn Tot/Ave	570	0	570	570	0	0	97	570	0	0	570
Zone - 017	Zn Block	570	0	570	570	0	0	97	570	0	0	570
125 - AV Control Room		241	0	241	241	0	0	9	241	0	0	241
Zone - 018	Zn Tot/Ave	241	0	241	241	0	0	9	241	0	0	241
Zone - 018	Zn Block	241	0	241	241	0	0	9	241	0	0	241
124 - Break Room		706	0	706	706	0	0	118	706	0	0	706
Zone - 019	Zn Tot/Ave	706	0	706	706	0	0	118	706	0	0	706
Zone - 019	Zn Block	706	0	706	706	0	0	118	706	0	0	706
123 - Open Collab Area 3		466	0	466	466	0	0	82	466	0	0	466
Zone - 020	Zn Tot/Ave	466	0	466	466	0	0	82	466	0	0	466

Airflow Balance

at Time of Cooling Space Peak

By MacDonald-Miller Facility Solutions

SYSTEM		Cooling										
		Main Fan	Secondary Fan	Terminal Box	Supply Diffuser	Leakage to Room	Leakage to RA	System Exhaust	Plenum	Run Around	Ducted + Corridor	System Return
System Zone Room		cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
Zone - 020	Zn Block	466	0	466	466	0	0	82	466	0	0	466
VAV AHU - 1st Floor	Sys Tot/Ave	17,106	0	17,106	17,106	0	0	2,469	17,106	0	0	15,911
VAV AHU - 1st Floor	Sys Block	15,911	0	15,911	15,911	0	0	2,469	15,911	0	0	15,911

AIRFLOW COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Description	VENTILATION			OPTIONAL VENTILATION			REHEAT AT DESIGN	Over/Under
	Airflow cfm	Sensible Btu/h	Latent Btu/h	Airflow cfm	Sensible Btu/h	Latent Btu/h	Sensible Btu/h	Sizing Btu/h
Alternative 1								
104 - Board Room North	69	432	300	0	0	0	0	0
105 - Furniture Storage	15	145	178	0	0	0	0	0
106 - Archive	12	113	139	0	0	0	0	0
107 - Mail Area	25	237	291	0	0	0	0	0
Zone - 001	Zn Tot/Ave	120	752	522	0	0	0	0
Zone - 001	Zn Block	120	752	522	0	0	0	0
104 - Board Room South	110	919	682	0	0	0	0	0
Zone - 002	Zn Tot/Ave	110	919	682	0	0	0	0
Zone - 002	Zn Block	110	919	682	0	0	0	0
101 - Reception	63	396	275	0	0	0	0	0
103 - Reception Desk	16	156	191	0	0	0	0	0
Zone - 003	Zn Tot/Ave	80	497	345	0	0	0	0
Zone - 003	Zn Block	80	497	345	0	0	0	0
117 - Fitness Room	83	800	983	0	0	0	0	0
118 - Corridor 2	28	272	335	0	0	0	0	0
119 - Storage	11	105	130	0	0	0	0	0
120 - Mothers Room	15	149	183	0	0	0	0	0
121 - Quiet Room	15	149	183	0	0	0	0	0
122 - Booth Seating Area	95	915	1,124	0	0	0	0	0
Zone - 004	Zn Tot/Ave	247	2,391	2,936	0	0	0	0
Zone - 004	Zn Block	247	2,391	2,936	0	0	0	0
162 - Meeting Room 2	82	312	164	0	0	0	0	0
Zone - 005	Zn Tot/Ave	82	312	164	0	0	0	0
Zone - 005	Zn Block	82	312	164	0	0	0	0
163 - Office A1	29	151	-12	0	0	0	0	0
Zone - 006	Zn Tot/Ave	29	151	-12	0	0	0	0
Zone - 006	Zn Block	29	151	-12	0	0	0	0
164 - Meeting Room 1	70	367	-29	0	0	0	0	0
Zone - 007	Zn Tot/Ave	70	367	-29	0	0	0	0
Zone - 007	Zn Block	70	367	-29	0	0	0	0
165 - EOC	133	1,285	1,199	0	0	0	0	0
111 - Library	6	58	71	0	0	0	0	0
112 - General Storage	21	202	248	0	0	0	0	0
166 - Corridor 3	14	142	145	0	0	0	0	0
Zone - 008	Zn Tot/Ave	174	1,775	1,811	0	0	0	0

AIRFLOW COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		VENTILATION			OPTIONAL VENTILATION			REHEAT AT DESIGN	Over/Under
		Airflow cfm	Sensible Btu/h	Latent Btu/h	Airflow cfm	Sensible Btu/h	Latent Btu/h	Sensible Btu/h	Sizing Btu/h
Description									
Zone - 008	Zn Block	174	1,775	1,811	0	0	0	0	0
160 - Office A2		26	270	275	0	0	0	0	0
159 - Office A3		26	270	275	0	0	0	0	0
151 - Office B5		26	263	269	0	0	0	0	0
150 - Office B6		23	226	278	0	0	0	0	0
141 - Office B7		24	232	285	0	0	0	0	0
140 - Office B8		24	232	285	0	0	0	0	0
Zone - 009	Zn Tot/Ave	150	1,449	1,780	0	0	0	0	0
Zone - 009	Zn Block	150	1,449	1,780	0	0	0	0	0
156 - Office B4		22	214	263	0	0	0	0	0
155 - Office B3		22	214	263	0	0	0	0	0
157 - Office B1		22	214	263	0	0	0	0	0
158 - Office B2		22	214	263	0	0	0	0	0
154 - Open Collab Area		128	1,234	1,516	0	0	0	0	0
149 - Corridor 7 East		11	108	132	0	0	0	0	0
161 - Corridor 5		6	55	68	0	0	0	0	0
152 - Corridor 6		6	58	71	0	0	0	0	0
168 - Future Office 6		22	214	263	0	0	0	0	0
167 - Future Office 7		23	220	271	0	0	0	0	0
Zone - 010	Zn Tot/Ave	284	2,748	3,375	0	0	0	0	0
Zone - 010	Zn Block	284	2,748	3,375	0	0	0	0	0
172 - Multi-Purpose Room East		128	1,240	1,524	0	0	0	0	0
Zone - 011	Zn Tot/Ave	128	1,240	1,524	0	0	0	0	0
Zone - 011	Zn Block	128	1,240	1,524	0	0	0	0	0
148 - Office B11		22	214	263	0	0	0	0	0
139 - Office B9		23	226	278	0	0	0	0	0
135 - Office C2		23	217	267	0	0	0	0	0
136 - Office C1		23	217	267	0	0	0	0	0
143 - Office B10		22	214	263	0	0	0	0	0
144 - Office B14		22	214	263	0	0	0	0	0
147 - Office B12		22	214	263	0	0	0	0	0
149 - Corridor 7 North		6	56	69	0	0	0	0	0
149 - Corridor 7 West		3	29	36	0	0	0	0	0
142 - Corridor 8		9	90	111	0	0	0	0	0
137 - Corridor 9 North		8	81	100	0	0	0	0	0
Zone - 012	Zn Tot/Ave	184	1,775	2,181	0	0	0	0	0
Zone - 012	Zn Block	184	1,775	2,181	0	0	0	0	0

AIRFLOW COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		VENTILATION			OPTIONAL VENTILATION			REHEAT AT DESIGN		Over/Under
		Airflow cfm	Sensible Btu/h	Latent Btu/h	Airflow cfm	Sensible Btu/h	Latent Btu/h	Sensible Btu/h	Sizing Btu/h	
Description										
172 - Multi-Purpose Room West		95	916	1,125	0	0	0	0	0	
Zone - 013	Zn Tot/Ave	95	916	1,125	0	0	0	0	0	
Zone - 013	Zn Block	95	916	1,125	0	0	0	0	0	
130 - Office C3		22	213	262	0	0	0	0	0	
129 - Office C4		22	213	262	0	0	0	0	0	
169 - Future Office 5		22	214	263	0	0	0	0	0	
145 - Office B13		22	214	263	0	0	0	0	0	
146 - Copy Print		13	121	148	0	0	0	0	0	
137 - Corridor 9 South		14	139	171	0	0	0	0	0	
171 - Corridor 4 East		6	58	71	0	0	0	0	0	
171 - Corridor 4 North		12	120	147	0	0	0	0	0	
171 - Corridor 4 South		13	132	134	0	0	0	0	0	
170 - Future Office 4		22	214	263	0	0	0	0	0	
Zone - 014	Zn Tot/Ave	169	1,633	2,005	0	0	0	0	0	
Zone - 014	Zn Block	169	1,633	2,005	0	0	0	0	0	
138 - Open Meeting Area		119	337	1,148	0	0	0	0	0	
Zone - 015	Zn Tot/Ave	119	337	1,148	0	0	0	0	0	
Zone - 015	Zn Block	119	337	1,148	0	0	0	0	0	
127 - Future Office 3		25	-6	193	0	0	0	0	0	
128 - Future Office 2		25	-6	193	0	0	0	0	0	
131 - Future Office 1		25	-6	193	0	0	0	0	0	
132 - Office B16		24	-6	188	0	0	0	0	0	
133 - Office B15		25	-6	193	0	0	0	0	0	
Zone - 016	Zn Tot/Ave	122	-30	960	0	0	0	0	0	
Zone - 016	Zn Block	122	-30	960	0	0	0	0	0	
126 - AV Studio		97	276	939	0	0	0	0	0	
Zone - 017	Zn Tot/Ave	97	276	939	0	0	0	0	0	
Zone - 017	Zn Block	97	276	939	0	0	0	0	0	
125 - AV Control Room		9	84	103	0	0	0	0	0	
Zone - 018	Zn Tot/Ave	9	84	103	0	0	0	0	0	
Zone - 018	Zn Block	9	84	103	0	0	0	0	0	
124 - Break Room		118	1,144	1,405	0	0	0	0	0	
Zone - 019	Zn Tot/Ave	118	1,144	1,405	0	0	0	0	0	
Zone - 019	Zn Block	118	1,144	1,405	0	0	0	0	0	
123 - Open Collab Area 3		82	790	971	0	0	0	0	0	
Zone - 020	Zn Tot/Ave	82	790	971	0	0	0	0	0	
Zone - 020	Zn Block	82	790	971	0	0	0	0	0	

AIRFLOW COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Description		VENTILATION			OPTIONAL VENTILATION			REHEAT AT DESIGN		Over/Under
		Airflow cfm	Sensible Btu/h	Latent Btu/h	Airflow cfm	Sensible Btu/h	Latent Btu/h	Sensible Btu/h	Sizing Btu/h	
VAV AHU - 1st Floor	Sys Tot/Ave	2,469	25,212	25,728	0	0	0	0		0
VAV AHU - 1st Floor	Sys Block	2,469	25,212	25,728	0	0	0	0		0

AIRFLOW HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		VENTILATION		OPTIONAL VENTILATION		REHEAT		HUMIDIFICATION		Total Btu/h
		Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Latent Btu/h	
Description										
Alternative 1										
104 - Board Room North		69	-3,723	0	0	210	-3,059	0	0	-6,783
105 - Furniture Storage		15	-809	0	0	31	-449	0	0	-1,258
106 - Archive		12	-631	0	0	24	-346	0	0	-977
107 - Mail Area		25	-1,321	0	0	40	-584	0	0	-1,905
Zone - 001	Zn Tot/Ave	120	-6,484	0	0	304	-4,438	0	0	-10,922
Zone - 001	Zn Block	120	-6,484	0	0	304	-4,438	0	0	-10,922
104 - Board Room South		110	-5,942	0	0	271	-3,953	0	0	-9,895
Zone - 002	Zn Tot/Ave	110	-5,942	0	0	271	-3,953	0	0	-9,895
Zone - 002	Zn Block	110	-5,942	0	0	271	-3,953	0	0	-9,895
101 - Reception		63	-3,418	0	0	187	-2,735	0	0	-6,154
103 - Reception Desk		16	-869	0	0	33	-488	0	0	-1,357
Zone - 003	Zn Tot/Ave	80	-4,287	0	0	221	-3,223	0	0	-7,511
Zone - 003	Zn Block	80	-4,287	0	0	221	-3,223	0	0	-7,511
117 - Fitness Room		83	-4,466	0	0	245	-3,577	0	0	-8,043
118 - Corridor 2		28	-1,520	0	0	54	-785	0	0	-2,306
119 - Storage		11	-589	0	0	19	-272	0	0	-861
120 - Mothers Room		15	-830	0	0	24	-346	0	0	-1,177
121 - Quiet Room		15	-830	0	0	24	-346	0	0	-1,177
122 - Booth Seating Area		85	-4,600	0	0	85	-1,246	0	0	-5,846
Zone - 004	Zn Tot/Ave	238	-12,837	0	0	450	-6,572	0	0	-19,409
Zone - 004	Zn Block	238	-12,837	0	0	450	-6,572	0	0	-19,409
162 - Meeting Room 2		82	-4,400	0	0	254	-3,706	0	0	-8,106
Zone - 005	Zn Tot/Ave	82	-4,400	0	0	254	-3,706	0	0	-8,106
Zone - 005	Zn Block	82	-4,400	0	0	254	-3,706	0	0	-8,106
163 - Office A1		29	-1,553	0	0	98	-1,438	0	0	-2,991
Zone - 006	Zn Tot/Ave	29	-1,553	0	0	98	-1,438	0	0	-2,991
Zone - 006	Zn Block	29	-1,553	0	0	98	-1,438	0	0	-2,991
164 - Meeting Room 1		70	-3,763	0	0	145	-2,122	0	0	-5,885
Zone - 007	Zn Tot/Ave	70	-3,763	0	0	145	-2,122	0	0	-5,885
Zone - 007	Zn Block	70	-3,763	0	0	145	-2,122	0	0	-5,885
165 - EOC		133	-7,171	0	0	218	-3,182	0	0	-10,353
111 - Library		6	-323	0	0	10	-150	0	0	-473
112 - General Storage		21	-1,126	0	0	36	-520	0	0	-1,646
166 - Corridor 3		14	-751	0	0	29	-430	0	0	-1,180
Zone - 008	Zn Tot/Ave	174	-9,371	0	0	293	-4,282	0	0	-13,652

AIRFLOW HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Description		VENTILATION		OPTIONAL VENTILATION		REHEAT		HUMIDIFICATION		Total
		Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Latent Btu/h	
Zone - 008	Zn Block	174	-9,371	0	0	293	-4,282	0	0	-13,652
160 - Office A2		26	-1,423	0	0	54	-782	0	0	-2,205
159 - Office A3		26	-1,423	0	0	54	-786	0	0	-2,210
151 - Office B5		26	-1,391	0	0	53	-781	0	0	-2,172
150 - Office B6		23	-1,262	0	0	46	-667	0	0	-1,929
141 - Office B7		24	-1,294	0	0	45	-654	0	0	-1,948
140 - Office B8		24	-1,294	0	0	39	-571	0	0	-1,865
Zone - 009	Zn Tot/Ave	150	-8,087	0	0	290	-4,241	0	0	-12,329
Zone - 009	Zn Block	150	-8,087	0	0	290	-4,241	0	0	-12,329
156 - Office B4		22	-1,197	0	0	35	-512	0	0	-1,709
155 - Office B3		22	-1,197	0	0	35	-512	0	0	-1,709
157 - Office B1		22	-1,197	0	0	35	-512	0	0	-1,709
158 - Office B2		22	-1,197	0	0	35	-512	0	0	-1,709
154 - Open Collab Area		128	-6,889	0	0	195	-2,854	0	0	-9,743
149 - Corridor 7 East		11	-602	0	0	19	-278	0	0	-880
161 - Corridor 5		6	-307	0	0	10	-142	0	0	-449
152 - Corridor 6		6	-323	0	0	10	-150	0	0	-473
168 - Future Office 6		22	-1,197	0	0	35	-512	0	0	-1,709
167 - Future Office 7		23	-1,229	0	0	35	-517	0	0	-1,746
Zone - 010	Zn Tot/Ave	284	-15,336	0	0	445	-6,501	0	0	-21,837
Zone - 010	Zn Block	284	-15,336	0	0	445	-6,501	0	0	-21,837
172 - Multi-Purpose Room East		128	-6,923	0	0	208	-3,035	0	0	-9,958
Zone - 011	Zn Tot/Ave	128	-6,923	0	0	208	-3,035	0	0	-9,958
Zone - 011	Zn Block	128	-6,923	0	0	208	-3,035	0	0	-9,958
148 - Office B11		22	-1,197	0	0	35	-512	0	0	-1,709
139 - Office B9		23	-1,262	0	0	36	-522	0	0	-1,783
135 - Office C2		23	-1,213	0	0	35	-515	0	0	-1,728
136 - Office C1		23	-1,213	0	0	35	-515	0	0	-1,728
143 - Office B10		22	-1,197	0	0	35	-512	0	0	-1,709
144 - Office B14		22	-1,197	0	0	35	-512	0	0	-1,709
147 - Office B12		22	-1,197	0	0	35	-512	0	0	-1,709
149 - Corridor 7 North		6	-314	0	0	10	-145	0	0	-459
149 - Corridor 7 West		3	-162	0	0	5	-75	0	0	-237
142 - Corridor 8		9	-505	0	0	16	-233	0	0	-738
137 - Corridor 9 North		8	-453	0	0	14	-209	0	0	-662
Zone - 012	Zn Tot/Ave	184	-9,909	0	0	292	-4,262	0	0	-14,171
Zone - 012	Zn Block	184	-9,909	0	0	292	-4,262	0	0	-14,171

AIRFLOW HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Description	VENTILATION		OPTIONAL VENTILATION		REHEAT		HUMIDIFICATION		Total
	Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Latent Btu/h	
172 - Multi-Purpose Room West	95	-5,111	0	0	144	-2,096	0	0	-7,208
Zone - 013 Zn Tot/Ave	95	-5,111	0	0	144	-2,096	0	0	-7,208
Zone - 013 Zn Block	95	-5,111	0	0	144	-2,096	0	0	-7,208
130 - Office C3	22	-1,190	0	0	35	-511	0	0	-1,702
129 - Office C4	22	-1,190	0	0	35	-511	0	0	-1,702
169 - Future Office 5	22	-1,197	0	0	35	-512	0	0	-1,709
145 - Office B13	22	-1,197	0	0	35	-512	0	0	-1,709
146 - Copy Print	13	-674	0	0	54	-789	0	0	-1,463
137 - Corridor 9 South	14	-776	0	0	25	-359	0	0	-1,135
171 - Corridor 4 East	6	-323	0	0	10	-150	0	0	-473
171 - Corridor 4 North	12	-670	0	0	21	-310	0	0	-979
171 - Corridor 4 South	13	-696	0	0	28	-405	0	0	-1,100
170 - Future Office 4	22	-1,197	0	0	35	-512	0	0	-1,709
Zone - 014 Zn Tot/Ave	169	-9,111	0	0	313	-4,570	0	0	-13,681
Zone - 014 Zn Block	169	-9,111	0	0	313	-4,570	0	0	-13,681
138 - Open Meeting Area	119	-6,405	0	0	370	-5,400	0	0	-11,805
Zone - 015 Zn Tot/Ave	119	-6,405	0	0	370	-5,400	0	0	-11,805
Zone - 015 Zn Block	119	-6,405	0	0	370	-5,400	0	0	-11,805
127 - Future Office 3	25	-1,326	0	0	112	-1,642	0	0	-2,969
128 - Future Office 2	25	-1,326	0	0	112	-1,642	0	0	-2,969
131 - Future Office 1	25	-1,326	0	0	112	-1,642	0	0	-2,969
132 - Office B16	24	-1,294	0	0	50	-731	0	0	-2,025
133 - Office B15	25	-1,326	0	0	51	-749	0	0	-2,075
Zone - 016 Zn Tot/Ave	122	-6,599	0	0	439	-6,407	0	0	-13,007
Zone - 016 Zn Block	122	-6,599	0	0	439	-6,407	0	0	-13,007
126 - AV Studio	97	-5,235	0	0	171	-2,496	0	0	-7,731
Zone - 017 Zn Tot/Ave	97	-5,235	0	0	171	-2,496	0	0	-7,731
Zone - 017 Zn Block	97	-5,235	0	0	171	-2,496	0	0	-7,731
125 - AV Control Room	9	-469	0	0	72	-1,054	0	0	-1,523
Zone - 018 Zn Tot/Ave	9	-469	0	0	72	-1,054	0	0	-1,523
Zone - 018 Zn Block	9	-469	0	0	72	-1,054	0	0	-1,523
124 - Break Room	118	-6,384	0	0	212	-3,092	0	0	-9,475
Zone - 019 Zn Tot/Ave	118	-6,384	0	0	212	-3,092	0	0	-9,475
Zone - 019 Zn Block	118	-6,384	0	0	212	-3,092	0	0	-9,475
123 - Open Collab Area 3	82	-4,410	0	0	140	-2,041	0	0	-6,451
Zone - 020 Zn Tot/Ave	82	-4,410	0	0	140	-2,041	0	0	-6,451
Zone - 020 Zn Block	82	-4,410	0	0	140	-2,041	0	0	-6,451

AIRFLOW HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Description		VENTILATION		OPTIONAL VENTILATION		REHEAT		HUMIDIFICATION		Total
		Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Sensible Btu/h	Airflow cfm	Latent Btu/h	
VAV AHU - 1st Floor	Sys Tot/Ave	2,460	-132,616	0	0	5,132	-74,929	0	0	-207,545
VAV AHU - 1st Floor	Sys Block	2,460	-132,616	0	0	5,132	-74,929	0	0	-207,545

BUILDING AREAS

By MacDonald-Miller Facility Solutions

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
Alternative 1															
		104 - Board Room North	1	1	401	401	0	0	0	0	0	78	9	0	748
		105 - Furniture Storage	1	1	250	250	0	0	0	0	0	0	0	0	210
		106 - Archive	1	1	195	195	0	0	0	0	0	0	0	0	152
		107 - Mail Area	1	1	325	325	0	0	0	0	0	0	0	0	135
	Zone - 001					1,171	0	0	0	0	0	78	6	0	1,245
		104 - Board Room South	1	1	670	670	0	0	0	0	0	78	9	0	748
	Zone - 002					670	0	0	0	0	0	78	9	0	748
		101 - Reception	1	1	640	640	0	0	51	0	0	122	31	0	268
		103 - Reception Desk	1	1	102	102	0	0	0	0	0	0	0	0	0
	Zone - 003					742	0	0	51	0	0	122	31	0	268
		117 - Fitness Room	1	1	714	714	0	0	77	0	0	0	0	0	0
		118 - Corridor 2	1	1	470	470	0	0	12	0	0	0	0	0	232
		119 - Storage	1	1	182	182	0	0	0	0	0	0	0	0	0
		120 - Mothers Room	1	1	90	90	0	0	0	0	0	0	0	0	0
		121 - Quiet Room	1	1	90	90	0	0	0	0	0	0	0	0	0
		122 - Booth Seating Area	1	1	245	245	0	0	0	0	0	0	0	0	0
	Zone - 004					1,791	0	0	89	0	0	0	0	0	232
		162 - Meeting Room 2	1	1	360	360	0	0	0	0	0	244	31	0	548
	Zone - 005					360	0	0	0	0	0	244	31	0	548
		163 - Office A1	1	1	230	230	0	0	0	0	0	102	31	0	227
	Zone - 006					230	0	0	0	0	0	102	31	0	227
		164 - Meeting Room 1	1	1	330	330	0	0	0	0	0	144	30	0	329
	Zone - 007					330	0	0	0	0	0	144	30	0	329
		165 - EOC	1	1	800	800	0	0	0	0	0	0	0	0	192
		111 - Library	1	1	100	100	0	0	0	0	0	0	0	0	0
		112 - General Storage	1	1	348	348	0	0	0	0	0	0	0	0	0
		166 - Corridor 3	1	1	232	232	0	0	12	0	0	0	0	0	232
	Zone - 008					1,480	0	0	12	0	0	0	0	0	424
		160 - Office A2	1	1	190	190	0	0	0	0	0	78	32	0	166
		159 - Office A3	1	1	190	190	0	0	0	0	0	80	32	0	170
		151 - Office B5	1	1	180	180	0	0	0	0	0	83	35	0	153
		150 - Office B6	1	1	140	140	0	0	0	0	0	39	21	0	144
		141 - Office B7	1	1	150	150	0	0	0	0	0	28	15	0	160
		140 - Office B8	1	1	150	150	0	0	0	0	0	0	0	0	126
	Zone - 009					1,000	0	0	0	0	0	307	25	0	919
		156 - Office B4	1	1	120	120	0	0	0	0	0	0	0	0	0
		155 - Office B3	1	1	120	120	0	0	0	0	0	0	0	0	0
		157 - Office B1	1	1	120	120	0	0	0	0	0	0	0	0	0
		158 - Office B2	1	1	120	120	0	0	0	0	0	0	0	0	0

BUILDING AREAS

By MacDonald-Miller Facility Solutions

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		154 - Open Collab Area	1	1	963	963	0	0	0	0	0	0	0	0	0
		149 - Corridor 7 East	1	1	186	186	0	0	12	0	0	0	0	0	0
		161 - Corridor 5	1	1	95	95	0	0	12	0	0	0	0	0	0
		152 - Corridor 6	1	1	100	100	0	0	12	0	0	0	0	0	0
		168 - Future Office 6	1	1	120	120	0	0	0	0	0	0	0	0	0
		167 - Future Office 7	1	1	130	130	0	0	0	0	0	0	0	0	0
		Zone - 010				2,074	0	0	35	0	0	0	0	0	0
		172 - Multi-Purpose Room East	1	1	640	640	0	0	0	0	0	0	0	0	0
		Zone - 011				640	0	0	0	0	0	0	0	0	0
		148 - Office B11	1	1	120	120	0	0	0	0	0	0	0	0	0
		139 - Office B9	1	1	140	140	0	0	0	0	0	0	0	0	0
		135 - Office C2	1	1	125	125	0	0	0	0	0	0	0	0	0
		136 - Office C1	1	1	125	125	0	0	0	0	0	0	0	0	0
		143 - Office B10	1	1	120	120	0	0	0	0	0	0	0	0	0
		144 - Office B14	1	1	120	120	0	0	0	0	0	0	0	0	0
		147 - Office B12	1	1	120	120	0	0	0	0	0	0	0	0	0
		149 - Corridor 7 North	1	1	97	97	0	0	12	0	0	0	0	0	0
		149 - Corridor 7 West	1	1	50	50	0	0	12	0	0	0	0	0	0
		142 - Corridor 8	1	1	156	156	0	0	12	0	0	0	0	0	0
		137 - Corridor 9 North	1	1	140	140	0	0	12	0	0	0	0	0	0
		Zone - 012				1,313	0	0	46	0	0	0	0	0	0
		172 - Multi-Purpose Room West	1	1	580	580	0	0	0	0	0	0	0	0	0
		Zone - 013				580	0	0	0	0	0	0	0	0	0
		130 - Office C3	1	1	118	118	0	0	0	0	0	0	0	0	0
		129 - Office C4	1	1	118	118	0	0	0	0	0	0	0	0	0
		169 - Future Office 5	1	1	120	120	0	0	0	0	0	0	0	0	0
		145 - Office B13	1	1	120	120	0	0	0	0	0	0	0	0	0
		146 - Copy Print	1	1	125	125	0	0	0	0	0	0	0	0	0
		137 - Corridor 9 South	1	1	240	240	0	0	12	0	0	0	0	0	0
		171 - Corridor 4 East	1	1	100	100	0	0	12	0	0	0	0	0	0
		171 - Corridor 4 North	1	1	207	207	0	0	12	0	0	0	0	0	0
		171 - Corridor 4 South	1	1	215	215	0	0	12	0	0	0	0	0	232
		170 - Future Office 4	1	1	120	120	0	0	0	0	0	0	0	0	0
		Zone - 014				1,483	0	0	46	0	0	0	0	0	232
		138 - Open Meeting Area	1	1	480	480	0	0	0	0	0	161	23	0	531
		Zone - 015				480	0	0	0	0	0	161	23	0	531
		127 - Future Office 3	1	1	160	160	0	0	0	0	0	81	35	0	150
		128 - Future Office 2	1	1	160	160	0	0	0	0	0	81	35	0	150
		131 - Future Office 1	1	1	160	160	0	0	0	0	0	81	35	0	150
		132 - Office B16	1	1	150	150	0	0	0	0	0	0	0	0	216
		133 - Office B15	1	1	160	160	0	0	0	0	0	0	0	0	230

BUILDING AREAS

By MacDonald-Miller Facility Solutions

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
	Zone - 016					790	0	0	0	0	0	242	21	0	895
	126 - AV Studio		1	1	285	285	0	0	0	0	0	81	27	0	220
	Zone - 017					285	0	0	0	0	0	81	27	0	220
	125 - AV Control Room		1	1	145	145	0	0	0	0	0	0	0	0	0
	Zone - 018					145	0	0	0	0	0	0	0	0	0
	124 - Break Room		1	1	640	640	0	0	0	0	0	0	0	0	0
	Zone - 019					640	0	0	0	0	0	0	0	0	0
	123 - Open Collab Area 3		1	1	530	530	0	0	0	0	0	0	0	0	0
	Zone - 020					530	0	0	0	0	0	0	0	0	0
	VAV AHU - 1st Floor					16,734	0	0	279	0	0	1,558	19	0	6,816

Total building Window Area: 1,558 ft²

Total building Wall Area: 8,373 ft²

Building Total Window %: 18.6%

Total building Skylight Area: 0 ft²

Total building Roof Area: 0 ft²

Building Total Skylight %: 0.0%

Total building Floor Area: 16,734 ft²

BUILDING U-FACTORS

By MacDonald-Miller Facility Solutions

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
Alternative 1													
104 - Board Room North	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	23.2	3.7
105 - Furnature Storage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	17.8	3.2
106 - Archive	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	17.5	3.1
107 - Mail Area	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	15.5	2.9
Zone - 001 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.0	3.3
104 - Board Room South	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.2	3.3
Zone - 002 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.2	3.3
101 - Reception	0.000	0.000	0.540	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	15.6	2.9
103 - Reception Desk	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 003 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	15.2	2.9
117 - Fitness Room	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
118 - Corridor 2	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	15.9	3.0
119 - Storage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
120 - Mothers Room	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
121 - Quiet Room	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
122 - Booth Seating Area	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 004 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	14.0	2.7
162 - Meeting Room 2	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	21.4	3.6
Zone - 005 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	21.4	3.6
163 - Office A1	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.6	3.2
Zone - 006 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.6	3.2
164 - Meeting Room 1	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.6	3.2
Zone - 007 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.6	3.2
165 - EOC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	14.6	2.8
111 - Library	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
112 - General Storage	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
166 - Corridor 3	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	18.6	3.2
Zone - 008 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	14.9	2.8
160 - Office A2	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.0	3.2
159 - Office A3	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.1	3.2
151 - Office B5	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	17.9	3.2

BUILDING U-FACTORS

By MacDonald-Miller Facility Solutions

Description	ROOM U-FACTORS							Btu/h·ft²·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		Mass lb/ft²	Capacitance Btu/lb·°F
150 - Office B6	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317		18.8	3.3
141 - Office B7	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317		19.0	3.3
140 - Office B8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317		17.8	3.2
Zone - 009 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317		18.2	3.2
156 - Office B4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
155 - Office B3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
157 - Office B1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
158 - Office B2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
154 - Open Collab Area	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
149 - Corridor 7 East	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
161 - Corridor 5	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
152 - Corridor 6	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
168 - Future Office 6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
167 - Future Office 7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
Zone - 010 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
172 - Multi-Purpose Room East	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
Zone - 011 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
148 - Office B11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
139 - Office B9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
135 - Office C2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
136 - Office C1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
143 - Office B10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
144 - Office B14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
147 - Office B12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
149 - Corridor 7 North	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
149 - Corridor 7 West	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
142 - Corridor 8	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
137 - Corridor 9 North	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
Zone - 012 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
172 - Multi-Purpose Room West	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
Zone - 013 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7
130 - Office C3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317		13.3	2.7

BUILDING U-FACTORS

By MacDonald-Miller Facility Solutions

Description	ROOM U-FACTORS							Btu/h·ft²·°F				Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
129 - Office C4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
169 - Future Office 5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
145 - Office B13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
146 - Copy Print	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
137 - Corridor 9 South	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
171 - Corridor 4 East	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
171 - Corridor 4 North	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
171 - Corridor 4 South	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	19.1	3.3
170 - Future Office 4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 014 - Zone	0.000	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	14.2	2.8
138 - Open Meeting Area	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.2	3.3
Zone - 015 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.2	3.3
127 - Future Office 3	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.3	3.2
128 - Future Office 2	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.3	3.2
131 - Future Office 1	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	18.3	3.2
132 - Office B16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	21.0	3.5
133 - Office B15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.317	21.0	3.5
Zone - 016 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	19.3	3.3
126 - AV Studio	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	17.4	3.1
Zone - 017 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	17.4	3.1
125 - AV Control Room	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 018 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
124 - Break Room	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 019 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
123 - Open Collab Area 3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Zone - 020 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
VAV AHU - 1st Floor - System	0.000	0.000	0.540	0.000	0.000	0.000	0.400	0.409	0.000	0.102	0.317	15.5	2.9

BUILDING U-FACTORS

By MacDonald-Miller Facility Solutions

Description

Description	ROOM U-FACTORS										Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	

Overall U-Factors			Overall Thermal Transfer Values		
Roof	0.000	Btu/h·ft²·°F	Roof (OTTVr)	0.00	Btu/hr·ft²
Wall	0.157	Btu/h·ft²·°F	Wall (OTTVw)	15.71	Btu/hr·ft²
Building	0.157	Btu/h·ft²·°F			

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

COOLING										
System Zone Room	Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage Sensible Btu/h	Latent Btu/h
Alternative 1										
104 - Board Room North	0	207	0	0	-50	0	0	0	0	0
105 - Furniture Storage	0	30	0	0	-10	0	0	0	0	0
106 - Archive	0	23	0	0	-8	0	0	0	0	0
107 - Mail Area	0	39	0	0	-16	0	0	0	0	0
Zone - 001 Zn Tot/Ave	0	298	0	0	-84	0	0	0	0	0
Zone - 001 Zn Block	0	299	0	0	-86	0	0	0	0	0
104 - Board Room South	0	261	0	0	-80	0	0	0	0	0
Zone - 002 Zn Tot/Ave	0	261	0	0	-80	0	0	0	0	0
Zone - 002 Zn Block	0	261	0	0	-80	0	0	0	0	0
101 - Reception	0	185	0	0	-46	0	0	0	0	0
103 - Reception Desk	0	33	0	0	-11	0	0	0	0	0
Zone - 003 Zn Tot/Ave	0	218	0	0	-56	0	0	0	0	0
Zone - 003 Zn Block	0	218	0	0	-57	0	0	0	0	0
117 - Fitness Room	0	242	0	0	-55	0	0	0	0	0
118 - Corridor 2	0	52	0	0	-19	0	0	0	0	0
119 - Storage	0	18	0	0	-7	0	0	0	0	0
120 - Mothers Room	0	23	0	0	-10	0	0	0	0	0
121 - Quiet Room	0	23	0	0	-10	0	0	0	0	0
122 - Booth Seating Area	0	84	0	0	-63	0	0	0	0	0
Zone - 004 Zn Tot/Ave	0	443	0	0	-165	0	0	0	0	0
Zone - 004 Zn Block	0	443	0	0	-165	0	0	0	0	0
162 - Meeting Room 2	0	251	0	0	-57	0	0	0	0	0
Zone - 005 Zn Tot/Ave	0	251	0	0	-57	0	0	0	0	0
Zone - 005 Zn Block	0	251	0	0	-57	0	0	0	0	0
163 - Office A1	0	97	0	0	-19	0	0	0	0	0
Zone - 006 Zn Tot/Ave	0	97	0	0	-19	0	0	0	0	0
Zone - 006 Zn Block	0	97	0	0	-19	0	0	0	0	0
164 - Meeting Room 1	0	143	0	0	-47	0	0	0	0	0
Zone - 007 Zn Tot/Ave	0	143	0	0	-47	0	0	0	0	0
Zone - 007 Zn Block	0	143	0	0	-47	0	0	0	0	0
165 - EOC	0	213	0	0	-96	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

COOLING										
System Zone Room	Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage	
									Sensible Btu/h	Latent Btu/h
111 - Library	0	10	0	0	-4	0	0	0	0	0
112 - General Storage	0	35	0	0	-14	0	0	0	0	0
166 - Corridor 3	0	28	0	0	-10	0	0	0	0	0
Zone - 008 Zn Tot/Ave	0	287	0	0	-123	0	0	0	0	0
Zone - 008 Zn Block	0	284	0	0	-121	0	0	0	0	0
160 - Office A2	0	51	0	0	-18	0	0	0	0	0
159 - Office A3	0	51	0	0	-18	0	0	0	0	0
151 - Office B5	0	51	0	0	-18	0	0	0	0	0
150 - Office B6	0	43	0	0	-16	0	0	0	0	0
141 - Office B7	0	43	0	0	-16	0	0	0	0	0
140 - Office B8	0	38	0	0	-16	0	0	0	0	0
Zone - 009 Zn Tot/Ave	0	277	0	0	-102	0	0	0	0	0
Zone - 009 Zn Block	0	276	0	0	-100	0	0	0	0	0
156 - Office B4	0	35	0	0	-15	0	0	0	0	0
155 - Office B3	0	35	0	0	-15	0	0	0	0	0
157 - Office B1	0	35	0	0	-15	0	0	0	0	0
158 - Office B2	0	35	0	0	-15	0	0	0	0	0
154 - Open Collab Area	0	193	0	0	-85	0	0	0	0	0
149 - Corridor 7 East	0	19	0	0	-7	0	0	0	0	0
161 - Corridor 5	0	10	0	0	-4	0	0	0	0	0
152 - Corridor 6	0	10	0	0	-4	0	0	0	0	0
168 - Future Office 6	0	35	0	0	-15	0	0	0	0	0
167 - Future Office 7	0	35	0	0	-15	0	0	0	0	0
Zone - 010 Zn Tot/Ave	0	439	0	0	-189	0	0	0	0	0
Zone - 010 Zn Block	0	439	0	0	-189	0	0	0	0	0
172 - Multi-Purpose Room East	0	205	0	0	-85	0	0	0	0	0
Zone - 011 Zn Tot/Ave	0	205	0	0	-85	0	0	0	0	0
Zone - 011 Zn Block	0	205	0	0	-85	0	0	0	0	0
148 - Office B11	0	35	0	0	-15	0	0	0	0	0
139 - Office B9	0	35	0	0	-16	0	0	0	0	0
135 - Office C2	0	35	0	0	-15	0	0	0	0	0
136 - Office C1	0	35	0	0	-15	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

COOLING										
System Zone Room	Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage Sensible Btu/h	Latent Btu/h
143 - Office B10	0	35	0	0	-15	0	0	0	0	0
144 - Office B14	0	35	0	0	-15	0	0	0	0	0
147 - Office B12	0	35	0	0	-15	0	0	0	0	0
149 - Corridor 7 North	0	10	0	0	-4	0	0	0	0	0
149 - Corridor 7 West	0	5	0	0	-2	0	0	0	0	0
142 - Corridor 8	0	16	0	0	-6	0	0	0	0	0
137 - Corridor 9 North	0	14	0	0	-6	0	0	0	0	0
Zone - 012 Zn Tot/Ave	0	288	0	0	-122	0	0	0	0	0
Zone - 012 Zn Block	0	288	0	0	-122	0	0	0	0	0
172 - Multi-Purpose Room West	0	142	0	0	-63	0	0	0	0	0
Zone - 013 Zn Tot/Ave	0	142	0	0	-63	0	0	0	0	0
Zone - 013 Zn Block	0	142	0	0	-63	0	0	0	0	0
130 - Office C3	0	35	0	0	-15	0	0	0	0	0
129 - Office C4	0	35	0	0	-15	0	0	0	0	0
169 - Future Office 5	0	35	0	0	-15	0	0	0	0	0
145 - Office B13	0	35	0	0	-15	0	0	0	0	0
146 - Copy Print	0	53	0	0	-8	0	0	0	0	0
137 - Corridor 9 South	0	24	0	0	-10	0	0	0	0	0
171 - Corridor 4 East	0	10	0	0	-4	0	0	0	0	0
171 - Corridor 4 North	0	21	0	0	-8	0	0	0	0	0
171 - Corridor 4 South	0	27	0	0	-9	0	0	0	0	0
170 - Future Office 4	0	35	0	0	-15	0	0	0	0	0
Zone - 014 Zn Tot/Ave	0	308	0	0	-113	0	0	0	0	0
Zone - 014 Zn Block	0	308	0	0	-112	0	0	0	0	0
138 - Open Meeting Area	0	355	0	0	-76	0	0	0	0	0
Zone - 015 Zn Tot/Ave	0	355	0	0	-76	0	0	0	0	0
Zone - 015 Zn Block	0	355	0	0	-76	0	0	0	0	0
127 - Future Office 3	0	111	0	0	-16	0	0	0	0	0
128 - Future Office 2	0	111	0	0	-16	0	0	0	0	0
131 - Future Office 1	0	111	0	0	-16	0	0	0	0	0
132 - Office B16	0	49	0	0	-15	0	0	0	0	0
133 - Office B15	0	51	0	0	-16	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		COOLING									
System	Zone Room	Duct Heat Pickup	Supply Fan Heat	Auxiliary Fan Heat	Return Fan Heat	System Exhaust Heat Loss	Adjacent Air Trans Heat Loss	Auxiliary Coil Losses	UnderFlr Heat Pickup	Supply Air Leakage	
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Sensible Btu/h	Latent Btu/h
	Zone - 016	Zn Tot/Ave	0	433	0	0	-77	0	0	0	0
	Zone - 016	Zn Block	0	433	0	0	-77	0	0	0	0
126 - AV Studio			0	164	0	0	-62	0	0	0	0
	Zone - 017	Zn Tot/Ave	0	164	0	0	-62	0	0	0	0
	Zone - 017	Zn Block	0	164	0	0	-62	0	0	0	0
125 - AV Control Room			0	71	0	0	-6	0	0	0	0
	Zone - 018	Zn Tot/Ave	0	71	0	0	-6	0	0	0	0
	Zone - 018	Zn Block	0	71	0	0	-6	0	0	0	0
124 - Break Room			0	209	0	0	-79	0	0	0	0
	Zone - 019	Zn Tot/Ave	0	209	0	0	-79	0	0	0	0
	Zone - 019	Zn Block	0	209	0	0	-79	0	0	0	0
123 - Open Collab Area 3			0	138	0	0	-54	0	0	0	0
	Zone - 020	Zn Tot/Ave	0	138	0	0	-54	0	0	0	0
	Zone - 020	Zn Block	0	138	0	0	-54	0	0	0	0
VAV AHU - 1st Floor	Sys Tot/Ave		0	5,028	0	0	-1,660	0	0	0	0
VAV AHU - 1st Floor	Sys Block		0	4,555	0	0	-1,721	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		COOLING								
		Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage Sensible Btu/h Latent Btu/h
System Zone Room										
Alternative 1										
104 - Board Room North		0	207	0	0	-50	0	0	0	0
105 - Furniture Storage		0	30	0	0	-10	0	0	0	0
106 - Archive		0	23	0	0	-8	0	0	0	0
107 - Mail Area		0	39	0	0	-17	0	0	0	0
Zone - 001	Zn Tot/Ave	0	300	0	0	-85	0	0	0	0
Zone - 001	Zn Block	0	299	0	0	-86	0	0	0	0
104 - Board Room South		0	267	0	0	-79	0	0	0	0
Zone - 002	Zn Tot/Ave	0	267	0	0	-79	0	0	0	0
Zone - 002	Zn Block	0	267	0	0	-79	0	0	0	0
101 - Reception		0	185	0	0	-46	0	0	0	0
103 - Reception Desk		0	33	0	0	-12	0	0	0	0
Zone - 003	Zn Tot/Ave	0	218	0	0	-57	0	0	0	0
Zone - 003	Zn Block	0	218	0	0	-57	0	0	0	0
117 - Fitness Room		0	242	0	0	-60	0	0	0	0
118 - Corridor 2		0	53	0	0	-20	0	0	0	0
119 - Storage		0	18	0	0	-8	0	0	0	0
120 - Mothers Room		0	23	0	0	-11	0	0	0	0
121 - Quiet Room		0	23	0	0	-11	0	0	0	0
122 - Booth Seating Area		0	84	0	0	-69	0	0	0	0
Zone - 004	Zn Tot/Ave	0	445	0	0	-179	0	0	0	0
Zone - 004	Zn Block	0	444	0	0	-172	0	0	0	0
162 - Meeting Room 2		0	251	0	0	-57	0	0	0	0
Zone - 005	Zn Tot/Ave	0	251	0	0	-57	0	0	0	0
Zone - 005	Zn Block	0	251	0	0	-57	0	0	0	0
163 - Office A1		0	97	0	0	-20	0	0	0	0
Zone - 006	Zn Tot/Ave	0	97	0	0	-20	0	0	0	0
Zone - 006	Zn Block	0	97	0	0	-20	0	0	0	0
164 - Meeting Room 1		0	144	0	0	-48	0	0	0	0
Zone - 007	Zn Tot/Ave	0	144	0	0	-48	0	0	0	0
Zone - 007	Zn Block	0	144	0	0	-48	0	0	0	0
165 - EOC		0	215	0	0	-96	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	COOLING									
	Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage	
									Sensible Btu/h	Latent Btu/h
111 - Library	0	10	0	0	-4	0	0	0	0	0
112 - General Storage	0	35	0	0	-15	0	0	0	0	0
166 - Corridor 3	0	29	0	0	-10	0	0	0	0	0
Zone - 008 Zn Tot/Ave	0	290	0	0	-125	0	0	0	0	0
Zone - 008 Zn Block	0	289	0	0	-125	0	0	0	0	0
160 - Office A2	0	53	0	0	-18	0	0	0	0	0
159 - Office A3	0	53	0	0	-18	0	0	0	0	0
151 - Office B5	0	53	0	0	-18	0	0	0	0	0
150 - Office B6	0	45	0	0	-16	0	0	0	0	0
141 - Office B7	0	44	0	0	-17	0	0	0	0	0
140 - Office B8	0	39	0	0	-17	0	0	0	0	0
Zone - 009 Zn Tot/Ave	0	287	0	0	-104	0	0	0	0	0
Zone - 009 Zn Block	0	287	0	0	-104	0	0	0	0	0
156 - Office B4	0	35	0	0	-16	0	0	0	0	0
155 - Office B3	0	35	0	0	-16	0	0	0	0	0
157 - Office B1	0	35	0	0	-16	0	0	0	0	0
158 - Office B2	0	35	0	0	-16	0	0	0	0	0
154 - Open Collab Area	0	193	0	0	-93	0	0	0	0	0
149 - Corridor 7 East	0	19	0	0	-8	0	0	0	0	0
161 - Corridor 5	0	10	0	0	-4	0	0	0	0	0
152 - Corridor 6	0	10	0	0	-4	0	0	0	0	0
168 - Future Office 6	0	35	0	0	-16	0	0	0	0	0
167 - Future Office 7	0	35	0	0	-17	0	0	0	0	0
Zone - 010 Zn Tot/Ave	0	440	0	0	-207	0	0	0	0	0
Zone - 010 Zn Block	0	440	0	0	-207	0	0	0	0	0
172 - Multi-Purpose Room East	0	205	0	0	-94	0	0	0	0	0
Zone - 011 Zn Tot/Ave	0	205	0	0	-94	0	0	0	0	0
Zone - 011 Zn Block	0	205	0	0	-94	0	0	0	0	0
148 - Office B11	0	35	0	0	-16	0	0	0	0	0
139 - Office B9	0	35	0	0	-17	0	0	0	0	0
135 - Office C2	0	35	0	0	-16	0	0	0	0	0
136 - Office C1	0	35	0	0	-16	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	COOLING									
	Duct Heat Pickup	Supply Fan Heat	Auxiliary Fan Heat	Return Fan Heat	System Exhaust Heat Loss	Adjacent Air Trans Heat Loss	Auxiliary Coil Losses	UnderFlr Heat Pickup	Supply Air Leakage	
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Sensible Btu/h	Latent Btu/h
143 - Office B10	0	35	0	0	-16	0	0	0	0	0
144 - Office B14	0	35	0	0	-16	0	0	0	0	0
147 - Office B12	0	35	0	0	-16	0	0	0	0	0
149 - Corridor 7 North	0	10	0	0	-4	0	0	0	0	0
149 - Corridor 7 West	0	5	0	0	-2	0	0	0	0	0
142 - Corridor 8	0	16	0	0	-7	0	0	0	0	0
137 - Corridor 9 North	0	14	0	0	-6	0	0	0	0	0
Zone - 012 Zn Tot/Ave	0	288	0	0	-134	0	0	0	0	0
Zone - 012 Zn Block	0	288	0	0	-134	0	0	0	0	0
172 - Multi-Purpose Room West	0	142	0	0	-69	0	0	0	0	0
Zone - 013 Zn Tot/Ave	0	142	0	0	-69	0	0	0	0	0
Zone - 013 Zn Block	0	142	0	0	-69	0	0	0	0	0
130 - Office C3	0	35	0	0	-16	0	0	0	0	0
129 - Office C4	0	35	0	0	-16	0	0	0	0	0
169 - Future Office 5	0	35	0	0	-16	0	0	0	0	0
145 - Office B13	0	35	0	0	-16	0	0	0	0	0
146 - Copy Print	0	53	0	0	-9	0	0	0	0	0
137 - Corridor 9 South	0	24	0	0	-10	0	0	0	0	0
171 - Corridor 4 East	0	10	0	0	-4	0	0	0	0	0
171 - Corridor 4 North	0	21	0	0	-9	0	0	0	0	0
171 - Corridor 4 South	0	27	0	0	-9	0	0	0	0	0
170 - Future Office 4	0	35	0	0	-16	0	0	0	0	0
Zone - 014 Zn Tot/Ave	0	309	0	0	-123	0	0	0	0	0
Zone - 014 Zn Block	0	309	0	0	-118	0	0	0	0	0
138 - Open Meeting Area	0	365	0	0	-75	0	0	0	0	0
Zone - 015 Zn Tot/Ave	0	365	0	0	-75	0	0	0	0	0
Zone - 015 Zn Block	0	365	0	0	-75	0	0	0	0	0
127 - Future Office 3	0	111	0	0	-16	0	0	0	0	0
128 - Future Office 2	0	111	0	0	-16	0	0	0	0	0
131 - Future Office 1	0	111	0	0	-16	0	0	0	0	0
132 - Office B16	0	49	0	0	-15	0	0	0	0	0
133 - Office B15	0	51	0	0	-15	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		COOLING									
		Duct Heat Pickup Btu/h	Supply Fan Heat Btu/h	Auxiliary Fan Heat Btu/h	Return Fan Heat Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	Auxiliary Coil Losses Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage	
System	Zone Room									Sensible Btu/h	Latent Btu/h
	Zone - 016	Zn Tot/Ave	0	433	0	0	-77	0	0	0	0
	Zone - 016	Zn Block	0	433	0	0	-77	0	0	0	0
126 - AV Studio			0	169	0	0	-61	0	0	0	0
	Zone - 017	Zn Tot/Ave	0	169	0	0	-61	0	0	0	0
	Zone - 017	Zn Block	0	169	0	0	-61	0	0	0	0
125 - AV Control Room			0	71	0	0	-6	0	0	0	0
	Zone - 018	Zn Tot/Ave	0	71	0	0	-6	0	0	0	0
	Zone - 018	Zn Block	0	71	0	0	-6	0	0	0	0
124 - Break Room			0	209	0	0	-86	0	0	0	0
	Zone - 019	Zn Tot/Ave	0	209	0	0	-86	0	0	0	0
	Zone - 019	Zn Block	0	209	0	0	-86	0	0	0	0
123 - Open Collab Area 3			0	138	0	0	-60	0	0	0	0
	Zone - 020	Zn Tot/Ave	0	138	0	0	-60	0	0	0	0
	Zone - 020	Zn Block	0	138	0	0	-60	0	0	0	0
VAV AHU - 1st Floor	Sys Tot/Ave	0	5,069	0	0	-1,747	0	0	0	0	0
VAV AHU - 1st Floor	Sys Block	0	4,715	0	0	-1,773	0	0	0	0	0

SYSTEM SUMMARY

DESIGN COOLING CAPACITIES

By MacDonald-Miller Facility Solutions

Alternative 1

Building Airside Systems and Plant Capacities

Plant System		Peak Plant Loads							Block Plant Loads									
		Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1	Stg 2	Base Utility ton	Peak Total ton	Time	Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1	Stg 2	Base Utility ton	Block Total ton
						Desic	Desic			Of					Desic	Desic		
						Cond	Cond			Peak					Cond	Cond		
Unassigned Cooling Loads		39.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	6/16	38.3	0.0	0.0	0.0	0.0	0.0	0.0	38.3
VAV AHU - 1st Floor		39.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	6/16	38.3	0.0	0.0	0.0	0.0	0.0	0.0	38.3
Building totals		39.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0		38.3	0.0	0.0	0.0	0.0	0.0	0.0	38.3
Building peak load is 39.0 tons.										Building maximum block load of 38.3 tons occurs in June at hour 16 based on system simulation.								

Design Cooling Load Summary

By MacDonald-Miller Facility Solutions
SHBTC Core & Shell Proposed Bldg C
Puyallup

System - VAV AHU - 1st Floor

Type - Parallel Fan Powered VAV, Htg Coil on Mixing Box Outlet

Coil Location - System

Coil Peak Calculation Time: June, hour 15
Ambient DB/WB/HR: 84 / 68 / 77

COOLING COIL LOAD INFORMATION

COOLING COIL SELECTION

Load Component	Sensible Btu/h	Latent Btu/h	Total Btu/h	Percent of Total
Solar Gain	32,127		32,127	6.9%
Glass Transmission	4,626		4,626	1.0%
Wall Transmission	15,044		15,044	3.2%
Roof Transmission	0		0	0.0%
Floor Transmission	0		0	0.0%
Adj Floor Transmission	0		0.00	0.0%
Partition Transmission	0		0	0.0%
Net Ceiling Load	0		0	0.0%
Lighting	36,552		36,552	7.8%
People	76,930	65,720	142,650	30.5%
Misc. Equipment Loads	169,701	0	169,701	36.2%
Cooling Infiltration	0	0	0	0.0%
Sub-Total ==>	334,981	65,720	400,701	85.5%
Ventilation Load	25,212	25,728	50,940	10.9%
Exhaust Heat	-1,721	0	-1,721	-0.4%
Supply Fan Load	4,555		4,555	1.0%
Return Fan Load	0		0	0.0%
Net Duct Heat Pickup	0		0	0.0%
Wall Load to Plenum	4,829		4,829	1.0%
Roof Load to Plenum	0		0	0.0%
Adj Floor to Plenum	0		0	0.0%
Lighting Load to Plenum	9,138		9,138	2.0%
Misc. Equip. Load to Plenum	0	0	0	0.0%
Glass Transmission to Plenum	0		0	0.0%
Glass Solar to Plenum	0		0	0.0%
Over/Under Sizing	0		0	0.0%
Reheat at Design	0	0	0	0.0%
Underfloor Sup Heat Pickup	0		0	0.0%
Supply Air Leakage	0	0	0	0.0%
Total Cooling Loads	376,995	91,448	468,443	100.0 %

Coil Selection Parameters	
Coil Entering Air (DB / WB)	77.0 / 62.9 °F
Coil Entering Humidity Ratio	64.28 gr/lb
Coil Leaving Air (DB / WB)	54.7 / 52.4 °F
Coil Leaving Humidity Ratio	55.71 gr/lb
Coil Sensible Load	376.99 MBh
Coil Total Load	468.44 MBh
Cooling Supply Air Temperature	55.00 °F
Total Cooling Airflow	15,374.31 cfm
Resulting Room Relative Humidity	47.05 %

General Engineering Checks

Total Cooling Load	39.0 ton
Area / Load	428.67 ft²/ton
Total Floor Area	16,734 ft²
Cooling Airflow	0.95 cfm/ft²
Airflow / Load	407.60 cfm/ton
Percent Outdoor Air	15.5 %
Cooling Load Methodology	CLTD-CLF (ASHRAE TFM)

SYSTEM SUMMARY

DESIGN HEATING CAPACITIES

By MacDonald-Miller Facility Solutions

Alternative 1

System Coil Capacities

System Description	System Type	Main System Btu/h	Aux System Btu/h	Preheat Btu/h	Reheat Btu/h	Humid. Btu/h	Optional Vent Btu/h	Stg 1 Desic Regen Btu/h	Stg 2 Desic Regen Btu/h	Stg 1 Frost Prevention Btu/h	Stg 2 Frost Prevention Btu/h	Heating Totals Btu/h
VAV AHU - 1st Floor	Parallel Fan Powered VAV, Htg Coil on Mixing Box	-354,210	0	-97,072	-74,929	0	0	0	0	0	0	-451,283
Totals		-354,210	0	-97,072	-74,929	0	0	0	0	0	0	-451,283

Building Plant Capacities

Plant System		Peak Loads												
		Main Coil MBh	Preheat Coil MBh	Reheat Coil MBh	Humid. Coil MBh	Aux Coil MBh	Opt Vent Coil MBh	Misc Load MBh	Stg 1	Stg 2	Stg 1	Stg 2	Base Utility MBh	Absorption Load MBh
									Desic.	Desic.	Frost	Frost		
									Regen. MBh	Regen. MBh	Prev. MBh	Prev. MBh		
Unassigned Heating Loads		354	97	0	0	0	0	0	0	0	0	0	0	0
VAV AHU - 1st Floor		354	97	0	0	0	0	0	0	0	0	0	0	0

Building peak load is 451.3 MBh.

ENGINEERING CHECKS

By MacDonald-Miller Facility Solutions

System	Zone	Room	Type	Floor Area ft²	COOLING					HEATING		
					% OA	cfm/ft²	cfm/ton	ft²/ton	Btu/hr-ft²	% OA	cfm/ft²	Btu/hr-ft²
Alternative 1												
		104 - Board Room North	Room	401	9.89	1.74	446.1	256.2	46.84	10.99	1.04	-39.93
		105 - Furniture Storage	Room	250	14.64	0.41	454.9	1,109.8	10.81	12.44	0.36	-14.94
		106 - Archive	Room	195	14.82	0.40	454.3	1,121.8	10.70	12.69	0.35	-14.68
		107 - Mail Area	Room	325	18.39	0.41	420.0	1,024.3	11.71	17.72	0.30	-13.82
	Zone - 001		Zone	1,171	11.92	0.86	450.7	522.9	22.95	12.28	0.58	-23.15
		104 - Board Room South	Room	670	12.21	1.35	437.7	324.9	36.93	13.57	0.81	-32.12
	Zone - 002		Zone	670	12.21	1.35	437.7	324.9	36.93	13.57	0.81	-32.12
		101 - Reception	Room	640	10.15	0.98	458.9	470.3	25.52	7.82	0.97	-37.44
		103 - Reception Desk	Room	102	14.48	1.09	410.6	376.1	31.90	16.08	0.66	-27.00
	Zone - 003		Zone	742	10.81	0.99	455.0	458.8	26.16	8.72	0.93	-36.01
		117 - Fitness Room	Room	714	10.15	1.14	339.1	296.5	40.48	11.27	0.69	-26.34
		118 - Corridor 2	Room	470	15.73	0.38	451.1	1,182.4	10.15	13.35	0.33	-14.08
		119 - Storage	Room	182	17.57	0.34	445.2	1,304.0	9.20	17.20	0.25	-11.24
		120 - Mothers Room	Room	90	19.48	0.88	377.2	429.5	27.94	21.65	0.53	-23.45
		121 - Quiet Room	Room	90	19.48	0.88	377.2	429.5	27.94	21.65	0.53	-23.45
		122 - Booth Seating Area	Room	245	33.30	1.16	294.2	253.4	47.35	33.33	0.70	-37.30
	Zone - 004		Zone	1,791	16.50	0.84	346.3	413.5	29.02	16.91	0.53	-22.80
		162 - Meeting Room 2	Room	360	9.64	2.35	450.0	191.5	62.68	10.72	1.41	-53.67
	Zone - 005		Zone	360	9.64	2.35	450.0	191.5	62.68	10.72	1.41	-53.67
		163 - Office A1	Room	230	8.77	1.43	463.5	324.7	36.95	9.75	0.86	-32.10
	Zone - 006		Zone	230	8.77	1.43	463.5	324.7	36.95	9.75	0.86	-32.10
		164 - Meeting Room 1	Room	330	14.41	1.47	422.5	287.9	41.69	16.01	0.88	-36.27
	Zone - 007		Zone	330	14.41	1.47	422.5	287.9	41.69	16.01	0.88	-36.27
		111 - Library	Room	100	17.57	0.34	445.2	1,304.0	9.20	17.20	0.25	-11.24
		112 - General Storage	Room	348	17.57	0.34	445.2	1,304.0	9.20	17.20	0.25	-11.24
		165 - EOC	Room	800	18.31	0.91	389.9	429.4	27.95	20.34	0.54	-23.83
		166 - Corridor 3	Room	232	14.18	0.42	455.7	1,077.3	11.14	10.86	0.43	-16.99
	Zone - 008		Zone	1,480	17.82	0.66	403.0	611.5	19.62	18.52	0.44	-18.94
		140 - Office B8	Room	150	18.40	0.87	384.3	441.9	27.15	20.44	0.52	-22.85
		141 - Office B7	Room	150	16.08	0.99	404.1	406.2	29.54	17.87	0.60	-25.77
		150 - Office B6	Room	140	15.36	1.09	409.1	376.0	31.91	17.07	0.65	-27.91
		151 - Office B5	Room	180	14.48	0.99	419.1	423.2	28.35	15.26	0.64	-29.21
		159 - Office A3	Room	190	14.71	0.94	418.4	442.9	27.09	15.31	0.62	-28.30
		160 - Office A2	Room	190	14.79	0.94	418.0	445.0	26.97	15.47	0.62	-28.05
	Zone - 009		Zone	1,000	15.49	0.97	410.3	423.8	28.31	16.65	0.61	-27.16
		149 - Corridor 7 East	Room	186	17.57	0.34	445.2	1,304.0	9.20	14.84	0.30	-12.92
		152 - Corridor 6	Room	100	17.57	0.34	445.2	1,304.0	9.20	13.27	0.35	-14.36
		154 - Open Collab Area	Room	963	19.61	0.68	384.8	568.7	21.10	21.79	0.41	-18.10
		155 - Office B3	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83

System	Zone	Room	Type	Floor Area ft²	COOLING					HEATING		
					% OA	cfm/ft²	cfm/ton	ft²/ton	Btu/hr-ft²	% OA	cfm/ft²	Btu/hr-ft²
		156 - Office B4	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		157 - Office B1	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		158 - Office B2	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		161 - Corridor 5	Room	95	17.57	0.34	445.2	1,304.0	9.20	13.11	0.36	-14.52
		167 - Future Office 7	Room	130	19.32	0.91	377.5	415.8	28.86	21.47	0.54	-24.18
		168 - Future Office 6	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
	Zone - 010	Zone		2,074	19.16	0.72	386.1	539.5	22.24	20.57	0.45	-19.91
		172 - Multi-Purpose Room East	Room	640	18.53	1.08	378.8	349.9	34.29	20.59	0.65	-28.50
	Zone - 011	Zone		640	18.53	1.08	378.8	349.9	34.29	20.59	0.65	-28.50
		135 - Office C2	Room	125	19.15	0.94	377.8	402.0	29.85	21.28	0.56	-24.97
		136 - Office C1	Room	125	19.15	0.94	377.8	402.0	29.85	21.28	0.56	-24.97
		137 - Corridor 9 North	Room	140	17.57	0.34	445.2	1,304.0	9.20	14.20	0.32	-13.47
		139 - Office B9	Room	140	19.65	0.85	376.9	443.1	27.08	21.83	0.51	-22.77
		142 - Corridor 8	Room	156	17.57	0.34	445.2	1,304.0	9.20	14.46	0.31	-13.24
		143 - Office B10	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		144 - Office B14	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		147 - Office B12	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		148 - Office B11	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		149 - Corridor 7 North	Room	97	17.57	0.34	445.2	1,304.0	9.20	13.18	0.35	-14.45
		149 - Corridor 7 West	Room	50	17.57	0.34	445.2	1,304.0	9.20	10.80	0.45	-17.47
	Zone - 012	Zone		1,313	18.89	0.74	386.9	522.1	22.98	19.65	0.49	-21.37
		172 - Multi-Purpose Room West	Room	580	19.81	0.83	376.7	456.5	26.29	22.01	0.50	-22.14
	Zone - 013	Zone		580	19.81	0.83	376.7	456.5	26.29	22.01	0.50	-22.14
		129 - Office C4	Room	118	18.92	0.99	378.2	382.4	31.38	21.02	0.59	-26.19
		130 - Office C3	Room	118	18.92	0.99	378.2	382.4	31.38	21.02	0.59	-26.19
		137 - Corridor 9 South	Room	240	17.57	0.34	445.2	1,304.0	9.20	15.31	0.29	-12.54
		145 - Office B13	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		146 - Copy Print	Room	125	6.94	1.44	478.2	332.0	36.15	7.71	0.86	-31.36
		169 - Future Office 5	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		170 - Future Office 4	Room	120	18.99	0.97	378.1	388.0	30.93	21.10	0.58	-25.83
		171 - Corridor 4 East	Room	100	17.57	0.34	445.2	1,304.0	9.20	13.27	0.35	-14.36
		171 - Corridor 4 North	Room	207	17.57	0.34	445.2	1,304.0	9.20	15.05	0.30	-12.75
		171 - Corridor 4 South	Room	215	13.97	0.43	456.3	1,062.3	11.30	10.55	0.44	-17.45
	Zone - 014	Zone		1,483	16.20	0.70	410.1	583.2	20.58	16.38	0.48	-20.39
		138 - Open Meeting Area	Room	480	9.64	2.57	452.8	176.3	68.06	10.71	1.54	-58.64
	Zone - 015	Zone		480	9.64	2.57	452.8	176.3	68.06	10.71	1.54	-58.64
		127 - Future Office 3	Room	160	6.56	2.34	475.4	202.9	59.15	7.29	1.41	-50.67
		128 - Future Office 2	Room	160	6.56	2.34	475.4	202.9	59.15	7.29	1.41	-50.67
		131 - Future Office 1	Room	160	6.56	2.34	475.4	202.9	59.15	7.29	1.41	-50.67
		132 - Office B16	Room	150	14.38	1.11	417.5	375.2	31.98	15.98	0.67	-27.48
		133 - Office B15	Room	160	14.38	1.07	417.7	390.8	30.71	15.98	0.64	-26.40
	Zone - 016	Zone		790	8.37	1.85	460.6	248.8	48.23	9.30	1.11	-41.35
		126 - AV Studio	Room	285	17.04	2.00	399.1	199.6	60.11	18.93	1.20	-51.47
	Zone - 017	Zone		285	17.04	2.00	399.1	199.6	60.11	18.93	1.20	-51.47
		125 - AV Control Room	Room	145	3.62	1.66	515.9	310.9	38.60	4.02	1.00	-33.96
	Zone - 018	Zone		145	3.62	1.66	515.9	310.9	38.60	4.02	1.00	-33.96

System	Zone	Room	Type	Floor Area ft²	COOLING					HEATING		
					% OA	cfm/ft²	cfm/ton	ft²/ton	Btu/hr·ft²	% OA	cfm/ft²	Btu/hr·ft²
		124 - Break Room	Room	640	16.78	1.10	391.6	355.1	33.79	18.64	0.66	-28.27
	Zone - 019		Zone	640	16.78	1.10	391.6	355.1	33.79	18.64	0.66	-28.27
		123 - Open Collab Area 3	Room	530	17.56	0.88	391.6	445.5	26.94	19.51	0.53	-22.81
	Zone - 020		Zone	530	17.56	0.88	391.6	445.5	26.94	19.51	0.53	-22.81
VAV AHU - 1st Floor			System - Parallel Fan Powered VAV, Htg Coil on Mixing Box Outlet	16,734	15.52	0.95	407.6	428.7	27.99	15.32	0.65	-26.97

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage Sensible Btu/h	Latent Btu/h	Total Btu/h
Alternative 1									
104 - Board Room North		0	0	0	0	0	0	0	0
105 - Furniture Storage		0	0	0	0	0	0	0	0
106 - Archive		0	0	0	0	0	0	0	0
107 - Mail Area		0	0	0	0	0	0	0	0
Zone - 001	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 001	Zn Block	0	0	0	0	0	0	0	0
104 - Board Room South		0	0	0	0	0	0	0	0
Zone - 002	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 002	Zn Block	0	0	0	0	0	0	0	0
101 - Reception		0	0	0	0	0	0	0	0
103 - Reception Desk		0	0	0	0	0	0	0	0
Zone - 003	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 003	Zn Block	0	0	0	0	0	0	0	0
117 - Fitness Room		0	0	0	0	0	0	0	0
118 - Corridor 2		0	0	0	0	0	0	0	0
119 - Storage		0	0	0	0	0	0	0	0
120 - Mothers Room		0	0	0	0	0	0	0	0
121 - Quiet Room		0	0	0	0	0	0	0	0
122 - Booth Seating Area		-369	0	0	0	0	0	0	-369
Zone - 004	Zn Total/Ave	-369	0	0	0	0	0	0	-369
Zone - 004	Zn Block	-369	0	0	0	0	0	0	-369
162 - Meeting Room 2		0	0	0	0	0	0	0	0
Zone - 005	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 005	Zn Block	0	0	0	0	0	0	0	0
163 - Office A1		0	0	0	0	0	0	0	0
Zone - 006	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 006	Zn Block	0	0	0	0	0	0	0	0
164 - Meeting Room 1		0	0	0	0	0	0	0	0
Zone - 007	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 007	Zn Block	0	0	0	0	0	0	0	0
165 - EOC		0	0	0	0	0	0	0	0
111 - Library		0	0	0	0	0	0	0	0
112 - General Storage		0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage		Total Btu/h
							Sensible Btu/h	Latent Btu/h	
166 - Corridor 3		0	0	0	0	0	0	0	0
Zone - 008	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 008	Zn Block	0	0	0	0	0	0	0	0
160 - Office A2		0	0	0	0	0	0	0	0
159 - Office A3		0	0	0	0	0	0	0	0
151 - Office B5		0	0	0	0	0	0	0	0
150 - Office B6		0	0	0	0	0	0	0	0
141 - Office B7		0	0	0	0	0	0	0	0
140 - Office B8		0	0	0	0	0	0	0	0
Zone - 009	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 009	Zn Block	0	0	0	0	0	0	0	0
156 - Office B4		0	0	0	0	0	0	0	0
155 - Office B3		0	0	0	0	0	0	0	0
157 - Office B1		0	0	0	0	0	0	0	0
158 - Office B2		0	0	0	0	0	0	0	0
154 - Open Collab Area		0	0	0	0	0	0	0	0
149 - Corridor 7 East		0	0	0	0	0	0	0	0
161 - Corridor 5		0	0	0	0	0	0	0	0
152 - Corridor 6		0	0	0	0	0	0	0	0
168 - Future Office 6		0	0	0	0	0	0	0	0
167 - Future Office 7		0	0	0	0	0	0	0	0
Zone - 010	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 010	Zn Block	0	0	0	0	0	0	0	0
172 - Multi-Purpose Room East		0	0	0	0	0	0	0	0
Zone - 011	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 011	Zn Block	0	0	0	0	0	0	0	0
148 - Office B11		0	0	0	0	0	0	0	0
139 - Office B9		0	0	0	0	0	0	0	0
135 - Office C2		0	0	0	0	0	0	0	0
136 - Office C1		0	0	0	0	0	0	0	0
143 - Office B10		0	0	0	0	0	0	0	0
144 - Office B14		0	0	0	0	0	0	0	0
147 - Office B12		0	0	0	0	0	0	0	0
149 - Corridor 7 North		0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage		Total Btu/h
							Sensible Btu/h	Latent Btu/h	
149 - Corridor 7 West		0	0	0	0	0	0	0	0
142 - Corridor 8		0	0	0	0	0	0	0	0
137 - Corridor 9 North		0	0	0	0	0	0	0	0
Zone - 012	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 012	Zn Block	0	0	0	0	0	0	0	0
172 - Multi-Purpose Room West		0	0	0	0	0	0	0	0
Zone - 013	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 013	Zn Block	0	0	0	0	0	0	0	0
130 - Office C3		0	0	0	0	0	0	0	0
129 - Office C4		0	0	0	0	0	0	0	0
169 - Future Office 5		0	0	0	0	0	0	0	0
145 - Office B13		0	0	0	0	0	0	0	0
146 - Copy Print		0	0	0	0	0	0	0	0
137 - Corridor 9 South		0	0	0	0	0	0	0	0
171 - Corridor 4 East		0	0	0	0	0	0	0	0
171 - Corridor 4 North		0	0	0	0	0	0	0	0
171 - Corridor 4 South		0	0	0	0	0	0	0	0
170 - Future Office 4		0	0	0	0	0	0	0	0
Zone - 014	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 014	Zn Block	0	0	0	0	0	0	0	0
138 - Open Meeting Area		0	0	0	0	0	0	0	0
Zone - 015	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 015	Zn Block	0	0	0	0	0	0	0	0
127 - Future Office 3		0	0	0	0	0	0	0	0
128 - Future Office 2		0	0	0	0	0	0	0	0
131 - Future Office 1		0	0	0	0	0	0	0	0
132 - Office B16		0	0	0	0	0	0	0	0
133 - Office B15		0	0	0	0	0	0	0	0
Zone - 016	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 016	Zn Block	0	0	0	0	0	0	0	0
126 - AV Studio		0	0	0	0	0	0	0	0
Zone - 017	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 017	Zn Block	0	0	0	0	0	0	0	0
125 - AV Control Room		0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	Supply Air Leakage Sensible Btu/h		Latent Btu/h	Total Btu/h
Zone - 018	Zn Total/Ave	0	0	0	0	0	0		0	0
Zone - 018	Zn Block	0	0	0	0	0	0		0	0
124 - Break Room		0	0	0	0	0	0		0	0
Zone - 019	Zn Total/Ave	0	0	0	0	0	0		0	0
Zone - 019	Zn Block	0	0	0	0	0	0		0	0
123 - Open Collab Area 3		0	0	0	0	0	0		0	0
Zone - 020	Zn Total/Ave	0	0	0	0	0	0		0	0
Zone - 020	Zn Block	0	0	0	0	0	0		0	0
VAV AHU - 1st Floor	Sys Total/Ave	-369	0	0	0	0	0		0	-369
VAV AHU - 1st Floor	Sys Block	-369	0	0	0	0	0		0	-369

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		HEATING							
		O A	R A	System	Adjacent	UnderFlr	— Supply Air Leakage —		Total
		Preheat Difference Btu/h	Reheat Difference Btu/h	Exhaust Heat Loss Btu/h	Air Trans Heat Loss Btu/h	Heat Pickup Btu/h	Sensible Btu/h	Latent Btu/h	
Alternative 1									
104 - Board Room North		0	0	0	0	0	0	0	0
105 - Furniture Storage		0	0	0	0	0	0	0	0
106 - Archive		0	0	0	0	0	0	0	0
107 - Mail Area		0	0	0	0	0	0	0	0
Zone - 001	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 001	Zn Block	0	0	0	0	0	0	0	0
104 - Board Room South		0	0	0	0	0	0	0	0
Zone - 002	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 002	Zn Block	0	0	0	0	0	0	0	0
101 - Reception		0	0	0	0	0	0	0	0
103 - Reception Desk		0	0	0	0	0	0	0	0
Zone - 003	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 003	Zn Block	0	0	0	0	0	0	0	0
117 - Fitness Room		0	0	0	0	0	0	0	0
118 - Corridor 2		0	0	0	0	0	0	0	0
119 - Storage		0	0	0	0	0	0	0	0
120 - Mothers Room		0	0	0	0	0	0	0	0
121 - Quiet Room		0	0	0	0	0	0	0	0
122 - Booth Seating Area		0	0	0	0	0	0	0	0
Zone - 004	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 004	Zn Block	0	0	0	0	0	0	0	0
162 - Meeting Room 2		0	0	0	0	0	0	0	0
Zone - 005	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 005	Zn Block	0	0	0	0	0	0	0	0
163 - Office A1		0	0	0	0	0	0	0	0
Zone - 006	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 006	Zn Block	0	0	0	0	0	0	0	0
164 - Meeting Room 1		0	0	0	0	0	0	0	0
Zone - 007	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 007	Zn Block	0	0	0	0	0	0	0	0
165 - EOC		0	0	0	0	0	0	0	0
111 - Library		0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	— Supply Air Leakage —		Total Btu/h
							Sensible Btu/h	Latent Btu/h	
112 - General Storage		0	0	0	0	0	0	0	0
166 - Corridor 3		0	0	0	0	0	0	0	0
Zone - 008	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 008	Zn Block	0	0	0	0	0	0	0	0
160 - Office A2		0	0	0	0	0	0	0	0
159 - Office A3		0	0	0	0	0	0	0	0
151 - Office B5		0	0	0	0	0	0	0	0
150 - Office B6		0	0	0	0	0	0	0	0
141 - Office B7		0	0	0	0	0	0	0	0
140 - Office B8		0	0	0	0	0	0	0	0
Zone - 009	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 009	Zn Block	0	0	0	0	0	0	0	0
156 - Office B4		0	0	0	0	0	0	0	0
155 - Office B3		0	0	0	0	0	0	0	0
157 - Office B1		0	0	0	0	0	0	0	0
158 - Office B2		0	0	0	0	0	0	0	0
154 - Open Collab Area		0	0	0	0	0	0	0	0
149 - Corridor 7 East		0	0	0	0	0	0	0	0
161 - Corridor 5		0	0	0	0	0	0	0	0
152 - Corridor 6		0	0	0	0	0	0	0	0
168 - Future Office 6		0	0	0	0	0	0	0	0
167 - Future Office 7		0	0	0	0	0	0	0	0
Zone - 010	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 010	Zn Block	0	0	0	0	0	0	0	0
172 - Multi-Purpose Room East		0	0	0	0	0	0	0	0
Zone - 011	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 011	Zn Block	0	0	0	0	0	0	0	0
148 - Office B11		0	0	0	0	0	0	0	0
139 - Office B9		0	0	0	0	0	0	0	0
135 - Office C2		0	0	0	0	0	0	0	0
136 - Office C1		0	0	0	0	0	0	0	0
143 - Office B10		0	0	0	0	0	0	0	0
144 - Office B14		0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room			O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	— Supply Air Leakage — Sensible Btu/h	Latent Btu/h	Total Btu/h
147 - Office B12			0	0	0	0	0	0	0	0
149 - Corridor 7 North			0	0	0	0	0	0	0	0
149 - Corridor 7 West			0	0	0	0	0	0	0	0
142 - Corridor 8			0	0	0	0	0	0	0	0
137 - Corridor 9 North			0	0	0	0	0	0	0	0
Zone - 012	Zn Total/Ave		0	0	0	0	0	0	0	0
Zone - 012	Zn Block		0	0	0	0	0	0	0	0
172 - Multi-Purpose Room West			0	0	0	0	0	0	0	0
Zone - 013	Zn Total/Ave		0	0	0	0	0	0	0	0
Zone - 013	Zn Block		0	0	0	0	0	0	0	0
130 - Office C3			0	0	0	0	0	0	0	0
129 - Office C4			0	0	0	0	0	0	0	0
169 - Future Office 5			0	0	0	0	0	0	0	0
145 - Office B13			0	0	0	0	0	0	0	0
146 - Copy Print			0	0	0	0	0	0	0	0
137 - Corridor 9 South			0	0	0	0	0	0	0	0
171 - Corridor 4 East			0	0	0	0	0	0	0	0
171 - Corridor 4 North			0	0	0	0	0	0	0	0
171 - Corridor 4 South			0	0	0	0	0	0	0	0
170 - Future Office 4			0	0	0	0	0	0	0	0
Zone - 014	Zn Total/Ave		0	0	0	0	0	0	0	0
Zone - 014	Zn Block		0	0	0	0	0	0	0	0
138 - Open Meeting Area			0	0	0	0	0	0	0	0
Zone - 015	Zn Total/Ave		0	0	0	0	0	0	0	0
Zone - 015	Zn Block		0	0	0	0	0	0	0	0
127 - Future Office 3			0	0	0	0	0	0	0	0
128 - Future Office 2			0	0	0	0	0	0	0	0
131 - Future Office 1			0	0	0	0	0	0	0	0
132 - Office B16			0	0	0	0	0	0	0	0
133 - Office B15			0	0	0	0	0	0	0	0
Zone - 016	Zn Total/Ave		0	0	0	0	0	0	0	0
Zone - 016	Zn Block		0	0	0	0	0	0	0	0
126 - AV Studio			0	0	0	0	0	0	0	0

AIRFLOW HEAT GAIN & LOSS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

HEATING

System Zone Room		O A Preheat Difference Btu/h	R A Reheat Difference Btu/h	System Exhaust Heat Loss Btu/h	Adjacent Air Trans Heat Loss Btu/h	UnderFlr Heat Pickup Btu/h	— Supply Air Leakage — Sensible Latent Btu/h Btu/h		Total Btu/h
Zone - 017	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 017	Zn Block	0	0	0	0	0	0	0	0
125 - AV Control Room		0	0	0	0	0	0	0	0
Zone - 018	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 018	Zn Block	0	0	0	0	0	0	0	0
124 - Break Room		0	0	0	0	0	0	0	0
Zone - 019	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 019	Zn Block	0	0	0	0	0	0	0	0
123 - Open Collab Area 3		0	0	0	0	0	0	0	0
Zone - 020	Zn Total/Ave	0	0	0	0	0	0	0	0
Zone - 020	Zn Block	0	0	0	0	0	0	0	0
VAV AHU - 1st Floor	Sys Total/Ave	0	0	0	0	0	0	0	0
VAV AHU - 1st Floor	Sys Block	0	0	0	0	0	0	0	0

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Alternative 1

System Zone Room	Lights			People				Misc. Equipment			
	Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
104 - Board Room North	876	219	1.000	2,250	0	1,800	1.000	4,608	0	0	1.000
105 - Furnature Storage	546	137	1.000	0	0	0	0.000	1,280	0	0	1.000
106 - Archive	426	106	1.000	0	0	0	0.000	998	0	0	1.000
107 - Mail Area	710	177	1.000	250	0	200	1.000	1,664	0	0	1.000
Zone - 001 Zn Tot/Ave	2,558	639	1.000	2,500	0	2,000	1.000	8,550	0	0	1.000
Zone - 001 Zn Block	2,558	639	1.000	2,500	0	2,000	1.000	8,550	0	0	1.000
104 - Board Room South	1,463	366	1.000	3,500	0	2,800	1.000	7,167	0	0	1.000
Zone - 002 Zn Tot/Ave	1,463	366	1.000	3,500	0	2,800	1.000	7,167	0	0	1.000
Zone - 002 Zn Block	1,463	366	1.000	3,500	0	2,800	1.000	7,167	0	0	1.000
101 - Reception	1,398	349	1.000	1,250	0	1,000	1.000	1,092	0	0	1.000
103 - Reception Desk	223	56	1.000	500	0	400	1.000	1,707	0	0	1.000
Zone - 003 Zn Tot/Ave	1,621	405	1.000	1,750	0	1,400	1.000	2,799	0	0	1.000
Zone - 003 Zn Block	1,621	405	1.000	1,750	0	1,400	1.000	2,799	0	0	1.000
117 - Fitness Room	1,560	390	1.000	5,680	0	8,720	1.000	10,580	0	0	1.000
118 - Corridor 2	1,027	257	1.000	0	0	0	0.000	2,406	0	0	1.000
119 - Storage	398	99	1.000	0	0	0	0.000	932	0	0	1.000
120 - Mothers Room	197	49	1.000	500	0	400	1.000	1,024	0	0	1.000
121 - Quiet Room	197	49	1.000	500	0	400	1.000	1,024	0	0	1.000
122 - Booth Seating Area	535	134	1.000	4,000	0	3,200	1.000	1,672	0	0	1.000
Zone - 004 Zn Tot/Ave	3,912	978	1.000	10,680	0	12,720	1.000	17,638	0	0	1.000
Zone - 004 Zn Block	3,912	978	1.000	10,680	0	12,720	1.000	17,638	0	0	1.000
162 - Meeting Room 2	786	197	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 005 Zn Tot/Ave	786	197	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 005 Zn Block	786	197	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
163 - Office A1	502	126	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 006 Zn Tot/Ave	502	126	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 006 Zn Block	502	126	1.000	750	0	600	1.000	1,536	0	0	1.000
164 - Meeting Room 1	721	180	1.000	2,500	0	2,000	1.000	1,126	0	0	1.000
Zone - 007 Zn Tot/Ave	721	180	1.000	2,500	0	2,000	1.000	1,126	0	0	1.000
Zone - 007 Zn Block	721	180	1.000	2,500	0	2,000	1.000	1,126	0	0	1.000
165 - EOC	1,747	437	1.000	4,250	0	3,400	1.000	8,703	0	0	1.000
111 - Library	218	55	1.000	0	0	0	0.000	512	0	0	1.000
112 - General Storage	760	190	1.000	0	0	0	0.000	1,782	0	0	1.000
166 - Corridor 3	507	127	1.000	0	0	0	0.000	1,188	0	0	1.000
Zone - 008 Zn Tot/Ave	3,233	808	1.000	4,250	0	3,400	1.000	12,184	0	0	1.000
Zone - 008 Zn Block	3,233	808	1.000	4,250	0	3,400	1.000	12,184	0	0	1.000
160 - Office A2	415	104	1.000	750	0	600	1.000	1,536	0	0	1.000
159 - Office A3	415	104	1.000	750	0	600	1.000	1,536	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Lights			People				Misc. Equipment			
	Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
151 - Office B5	393	98	1.000	750	0	600	1.000	1,536	0	0	1.000
150 - Office B6	306	76	1.000	750	0	600	1.000	1,536	0	0	1.000
141 - Office B7	328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
140 - Office B8	328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 009 Zn Tot/Ave	2,184	546	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 009 Zn Block	2,184	546	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
156 - Office B4	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
155 - Office B3	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
157 - Office B1	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
158 - Office B2	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
154 - Open Collab Area	2,104	526	1.000	3,500	0	2,800	1.000	8,533	0	0	1.000
149 - Corridor 7 East	406	102	1.000	0	0	0	0.000	952	0	0	1.000
161 - Corridor 5	208	52	1.000	0	0	0	0.000	486	0	0	1.000
152 - Corridor 6	218	55	1.000	0	0	0	0.000	512	0	0	1.000
168 - Future Office 6	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
167 - Future Office 7	284	71	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 010 Zn Tot/Ave	4,530	1,133	1.000	8,000	0	6,400	1.000	19,698	0	0	1.000
Zone - 010 Zn Block	4,530	1,133	1.000	8,000	0	6,400	1.000	19,698	0	0	1.000
172 - Multi-Purpose Room East	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 011 Zn Tot/Ave	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 011 Zn Block	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
148 - Office B11	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
139 - Office B9	306	76	1.000	750	0	600	1.000	1,536	0	0	1.000
135 - Office C2	273	68	1.000	750	0	600	1.000	1,536	0	0	1.000
136 - Office C1	273	68	1.000	750	0	600	1.000	1,536	0	0	1.000
143 - Office B10	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
144 - Office B14	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
147 - Office B12	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
149 - Corridor 7 North	212	53	1.000	0	0	0	0.000	497	0	0	1.000
149 - Corridor 7 West	109	27	1.000	0	0	0	0.000	256	0	0	1.000
142 - Corridor 8	341	85	1.000	0	0	0	0.000	799	0	0	1.000
137 - Corridor 9 North	306	76	1.000	0	0	0	0.000	717	0	0	1.000
Zone - 012 Zn Tot/Ave	2,868	717	1.000	5,250	0	4,200	1.000	13,019	0	0	1.000
Zone - 012 Zn Block	2,868	717	1.000	5,250	0	4,200	1.000	13,019	0	0	1.000
172 - Multi-Purpose Room West	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 013 Zn Tot/Ave	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 013 Zn Block	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
130 - Office C3	258	64	1.000	750	0	600	1.000	1,536	0	0	1.000
129 - Office C4	258	64	1.000	750	0	600	1.000	1,536	0	0	1.000
169 - Future Office 5	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		Lights			People				Misc. Equipment			
		Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
System Zone Room												
145 - Office B13		262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
146 - Copy Print		273	68	1.000	250	0	200	1.000	3,413	0	0	1.000
137 - Corridor 9 South		524	131	1.000	0	0	0	0.000	1,229	0	0	1.000
171 - Corridor 4 East		218	55	1.000	0	0	0	0.000	512	0	0	1.000
171 - Corridor 4 North		452	113	1.000	0	0	0	0.000	1,060	0	0	1.000
171 - Corridor 4 South		470	117	1.000	0	0	0	0.000	1,101	0	0	1.000
170 - Future Office 4		262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 014	Zn Tot/Ave	3,239	810	1.000	4,000	0	3,200	1.000	14,993	0	0	1.000
Zone - 014	Zn Block	3,239	810	1.000	4,000	0	3,200	1.000	14,993	0	0	1.000
138 - Open Meeting Area		1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 015	Zn Tot/Ave	1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 015	Zn Block	1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
127 - Future Office 3		349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
128 - Future Office 2		349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
131 - Future Office 1		349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
132 - Office B16		328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
133 - Office B15		349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 016	Zn Tot/Ave	1,726	431	1.000	3,750	0	3,000	1.000	7,679	0	0	1.000
Zone - 016	Zn Block	1,726	431	1.000	3,750	0	3,000	1.000	7,679	0	0	1.000
126 - AV Studio		623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
Zone - 017	Zn Tot/Ave	623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
Zone - 017	Zn Block	623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
125 - AV Control Room		317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
Zone - 018	Zn Tot/Ave	317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
Zone - 018	Zn Block	317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
124 - Break Room		1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
Zone - 019	Zn Tot/Ave	1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
Zone - 019	Zn Block	1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
123 - Open Collab Area 3		1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
Zone - 020	Zn Tot/Ave	1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
Zone - 020	Zn Block	1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
VAV AHU - 1st Floor	Sys Tot/Ave	36,552	9,138	1.000	76,930	0	65,720	1.000	169,701	0	0	1.000
VAV AHU - 1st Floor	Sys Block	36,552	9,138	1.000	76,930	0	65,720	1.000	169,701	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
104 - Board Room North	0	0	0	0	0	0	0	0	0.0	0.0
105 - Furniture Storage	0	0	0	0	0	0	0	0	0.0	0.0
106 - Archive	0	0	0	0	0	0	0	0	0.0	0.0
107 - Mail Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
104 - Board Room South	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
101 - Reception	0	0	0	0	0	0	0	0	0.0	0.0
103 - Reception Desk	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
117 - Fitness Room	0	0	0	0	0	0	0	0	0.0	0.0
118 - Corridor 2	0	0	0	0	0	0	0	0	0.0	0.0
119 - Storage	0	0	0	0	0	0	0	0	0.0	0.0
120 - Mothers Room	0	0	0	0	0	0	0	0	0.0	0.0
121 - Quiet Room	0	0	0	0	0	0	0	0	0.0	0.0
122 - Booth Seating Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
162 - Meeting Room 2	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
163 - Office A1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
164 - Meeting Room 1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
165 - EOC	0	0	0	0	0	0	0	0	0.0	0.0
111 - Library	0	0	0	0	0	0	0	0	0.0	0.0
112 - General Storage	0	0	0	0	0	0	0	0	0.0	0.0
166 - Corridor 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
Zone - 008	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 008	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
160 - Office A2		0	0	0	0	0	0	0	0	0.0	0.0
159 - Office A3		0	0	0	0	0	0	0	0	0.0	0.0
151 - Office B5		0	0	0	0	0	0	0	0	0.0	0.0
150 - Office B6		0	0	0	0	0	0	0	0	0.0	0.0
141 - Office B7		0	0	0	0	0	0	0	0	0.0	0.0
140 - Office B8		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
156 - Office B4		0	0	0	0	0	0	0	0	0.0	0.0
155 - Office B3		0	0	0	0	0	0	0	0	0.0	0.0
157 - Office B1		0	0	0	0	0	0	0	0	0.0	0.0
158 - Office B2		0	0	0	0	0	0	0	0	0.0	0.0
154 - Open Collab Area		0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 East		0	0	0	0	0	0	0	0	0.0	0.0
161 - Corridor 5		0	0	0	0	0	0	0	0	0.0	0.0
152 - Corridor 6		0	0	0	0	0	0	0	0	0.0	0.0
168 - Future Office 6		0	0	0	0	0	0	0	0	0.0	0.0
167 - Future Office 7		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Eas		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
148 - Office B11		0	0	0	0	0	0	0	0	0.0	0.0
139 - Office B9		0	0	0	0	0	0	0	0	0.0	0.0
135 - Office C2		0	0	0	0	0	0	0	0	0.0	0.0
136 - Office C1		0	0	0	0	0	0	0	0	0.0	0.0
143 - Office B10		0	0	0	0	0	0	0	0	0.0	0.0
144 - Office B14		0	0	0	0	0	0	0	0	0.0	0.0
147 - Office B12		0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 North		0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 West		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
142 - Corridor 8	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 North	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Wes	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
130 - Office C3	0	0	0	0	0	0	0	0	0.0	0.0
129 - Office C4	0	0	0	0	0	0	0	0	0.0	0.0
169 - Future Office 5	0	0	0	0	0	0	0	0	0.0	0.0
145 - Office B13	0	0	0	0	0	0	0	0	0.0	0.0
146 - Copy Print	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 South	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 East	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 North	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 South	0	0	0	0	0	0	0	0	0.0	0.0
170 - Future Office 4	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
138 - Open Meeting Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
127 - Future Office 3	0	0	0	0	0	0	0	0	0.0	0.0
128 - Future Office 2	0	0	0	0	0	0	0	0	0.0	0.0
131 - Future Office 1	0	0	0	0	0	0	0	0	0.0	0.0
132 - Office B16	0	0	0	0	0	0	0	0	0.0	0.0
133 - Office B15	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
126 - AV Studio	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
125 - AV Control Room	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
Zone - 018 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
124 - Break Room	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
123 - Open Collab Area 3	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor Sys Block	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

Alternative 1

			Lights		People				Misc. Equipment			
			Space	Ret Air	Space	Ret Air	Space		Space	Space	Ret Air	
			Load	Load	Sensible	Sensible	Latent		Sensible	Latent	Load	
			Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	CLF	Btu/h	Btu/h	Btu/h	CLF
System	Zone	Room										
		104 - Board Room North	876	219	1,000	2,250	0	1,800	1,000	4,608	0	0
		105 - Furniture Storage	546	137	1,000	0	0	0	0.000	1,280	0	0
		106 - Archive	426	106	1,000	0	0	0	0.000	998	0	0
		107 - Mail Area	710	177	1,000	250	0	200	1,000	1,664	0	0
	Zone - 001	Zn Tot/Ave	2,558	639	1,000	2,500	0	2,000	1,000	8,550	0	0
	Zone - 001	Zn Block	2,558	639	1,000	2,500	0	2,000	1,000	8,550	0	0
		104 - Board Room South	1,463	366	1,000	3,500	0	2,800	1,000	7,167	0	0
	Zone - 002	Zn Tot/Ave	1,463	366	1,000	3,500	0	2,800	1,000	7,167	0	0
	Zone - 002	Zn Block	1,463	366	1,000	3,500	0	2,800	1,000	7,167	0	0
		101 - Reception	1,398	349	1,000	1,250	0	1,000	1,000	1,092	0	0
		103 - Reception Desk	223	56	1,000	500	0	400	1,000	1,707	0	0
	Zone - 003	Zn Tot/Ave	1,621	405	1,000	1,750	0	1,400	1,000	2,799	0	0
	Zone - 003	Zn Block	1,621	405	1,000	1,750	0	1,400	1,000	2,799	0	0
		117 - Fitness Room	1,560	390	1,000	5,680	0	8,720	1,000	10,580	0	0
		118 - Corridor 2	1,027	257	1,000	0	0	0	0.000	2,406	0	0
		119 - Storage	398	99	1,000	0	0	0	0.000	932	0	0
		120 - Mothers Room	197	49	1,000	500	0	400	1,000	1,024	0	0
		121 - Quiet Room	197	49	1,000	500	0	400	1,000	1,024	0	0
		122 - Booth Seating Area	535	134	1,000	4,000	0	3,200	1,000	1,672	0	0
	Zone - 004	Zn Tot/Ave	3,912	978	1,000	10,680	0	12,720	1,000	17,638	0	0
	Zone - 004	Zn Block	3,912	978	1,000	10,680	0	12,720	1,000	17,638	0	0
		162 - Meeting Room 2	786	197	1,000	3,000	0	2,400	1,000	6,143	0	0
	Zone - 005	Zn Tot/Ave	786	197	1,000	3,000	0	2,400	1,000	6,143	0	0
	Zone - 005	Zn Block	786	197	1,000	3,000	0	2,400	1,000	6,143	0	0
		163 - Office A1	502	126	1,000	750	0	600	1,000	1,536	0	0
	Zone - 006	Zn Tot/Ave	502	126	1,000	750	0	600	1,000	1,536	0	0
	Zone - 006	Zn Block	502	126	1,000	750	0	600	1,000	1,536	0	0
		164 - Meeting Room 1	721	180	1,000	2,500	0	2,000	1,000	1,126	0	0
	Zone - 007	Zn Tot/Ave	721	180	1,000	2,500	0	2,000	1,000	1,126	0	0
	Zone - 007	Zn Block	721	180	1,000	2,500	0	2,000	1,000	1,126	0	0
		165 - EOC	1,747	437	1,000	4,250	0	3,400	1,000	8,703	0	0
		111 - Library	218	55	1,000	0	0	0	0.000	512	0	0
		112 - General Storage	760	190	1,000	0	0	0	0.000	1,782	0	0
		166 - Corridor 3	507	127	1,000	0	0	0	0.000	1,188	0	0
	Zone - 008	Zn Tot/Ave	3,233	808	1,000	4,250	0	3,400	1,000	12,184	0	0
	Zone - 008	Zn Block	3,233	808	1,000	4,250	0	3,400	1,000	12,184	0	0
		160 - Office A2	415	104	1,000	750	0	600	1,000	1,536	0	0

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Lights			People				Misc. Equipment			
	Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
159 - Office A3	415	104	1.000	750	0	600	1.000	1,536	0	0	1.000
151 - Office B5	393	98	1.000	750	0	600	1.000	1,536	0	0	1.000
150 - Office B6	306	76	1.000	750	0	600	1.000	1,536	0	0	1.000
141 - Office B7	328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
140 - Office B8	328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 009 Zn Tot/Ave	2,184	546	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 009 Zn Block	2,184	546	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
156 - Office B4	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
155 - Office B3	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
157 - Office B1	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
158 - Office B2	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
154 - Open Collab Area	2,104	526	1.000	3,500	0	2,800	1.000	8,533	0	0	1.000
149 - Corridor 7 East	406	102	1.000	0	0	0	0.000	952	0	0	1.000
161 - Corridor 5	208	52	1.000	0	0	0	0.000	486	0	0	1.000
152 - Corridor 6	218	55	1.000	0	0	0	0.000	512	0	0	1.000
168 - Future Office 6	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
167 - Future Office 7	284	71	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 010 Zn Tot/Ave	4,530	1,133	1.000	8,000	0	6,400	1.000	19,698	0	0	1.000
Zone - 010 Zn Block	4,530	1,133	1.000	8,000	0	6,400	1.000	19,698	0	0	1.000
172 - Multi-Purpose Room East	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 011 Zn Tot/Ave	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 011 Zn Block	1,398	349	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
148 - Office B11	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
139 - Office B9	306	76	1.000	750	0	600	1.000	1,536	0	0	1.000
135 - Office C2	273	68	1.000	750	0	600	1.000	1,536	0	0	1.000
136 - Office C1	273	68	1.000	750	0	600	1.000	1,536	0	0	1.000
143 - Office B10	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
144 - Office B14	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
147 - Office B12	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
149 - Corridor 7 North	212	53	1.000	0	0	0	0.000	497	0	0	1.000
149 - Corridor 7 West	109	27	1.000	0	0	0	0.000	256	0	0	1.000
142 - Corridor 8	341	85	1.000	0	0	0	0.000	799	0	0	1.000
137 - Corridor 9 North	306	76	1.000	0	0	0	0.000	717	0	0	1.000
Zone - 012 Zn Tot/Ave	2,868	717	1.000	5,250	0	4,200	1.000	13,019	0	0	1.000
Zone - 012 Zn Block	2,868	717	1.000	5,250	0	4,200	1.000	13,019	0	0	1.000
172 - Multi-Purpose Room West	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 013 Zn Tot/Ave	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
Zone - 013 Zn Block	1,267	317	1.000	3,000	0	2,400	1.000	6,143	0	0	1.000
130 - Office C3	258	64	1.000	750	0	600	1.000	1,536	0	0	1.000

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Lights			People				Misc. Equipment			
	Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
129 - Office C4	258	64	1.000	750	0	600	1.000	1,536	0	0	1.000
169 - Future Office 5	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
145 - Office B13	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
146 - Copy Print	273	68	1.000	250	0	200	1.000	3,413	0	0	1.000
137 - Corridor 9 South	524	131	1.000	0	0	0	0.000	1,229	0	0	1.000
171 - Corridor 4 East	218	55	1.000	0	0	0	0.000	512	0	0	1.000
171 - Corridor 4 North	452	113	1.000	0	0	0	0.000	1,060	0	0	1.000
171 - Corridor 4 South	470	117	1.000	0	0	0	0.000	1,101	0	0	1.000
170 - Future Office 4	262	66	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 014 Zn Tot/Ave	3,239	810	1.000	4,000	0	3,200	1.000	14,993	0	0	1.000
Zone - 014 Zn Block	3,239	810	1.000	4,000	0	3,200	1.000	14,993	0	0	1.000
138 - Open Meeting Area	1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 015 Zn Tot/Ave	1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
Zone - 015 Zn Block	1,048	262	1.000	4,500	0	3,600	1.000	9,215	0	0	1.000
127 - Future Office 3	349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
128 - Future Office 2	349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
131 - Future Office 1	349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
132 - Office B16	328	82	1.000	750	0	600	1.000	1,536	0	0	1.000
133 - Office B15	349	87	1.000	750	0	600	1.000	1,536	0	0	1.000
Zone - 016 Zn Tot/Ave	1,726	431	1.000	3,750	0	3,000	1.000	7,679	0	0	1.000
Zone - 016 Zn Block	1,726	431	1.000	3,750	0	3,000	1.000	7,679	0	0	1.000
126 - AV Studio	623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
Zone - 017 Zn Tot/Ave	623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
Zone - 017 Zn Block	623	156	1.000	4,000	0	3,200	1.000	1,945	0	0	1.000
125 - AV Control Room	317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
Zone - 018 Zn Tot/Ave	317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
Zone - 018 Zn Block	317	79	1.000	0	0	0	0.000	4,949	0	0	1.000
124 - Break Room	1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
Zone - 019 Zn Tot/Ave	1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
Zone - 019 Zn Block	1,398	349	1.000	4,000	0	3,200	1.000	10,000	0	0	1.000
123 - Open Collab Area 3	1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
Zone - 020 Zn Tot/Ave	1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
Zone - 020 Zn Block	1,158	289	1.000	2,500	0	2,000	1.000	6,485	0	0	1.000
VAV AHU - 1st Floor	Sys Tot/Ave	36,552	9,138	1.000	76,930	0	65,720	1.000	169,701	0	1.000
VAV AHU - 1st Floor	Sys Block	36,552	9,138	1.000	76,930	0	65,720	1.000	169,701	0	1.000

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People	Lighting	Misc	Internal Lds	Wall	Glass	Solar	Envelope	Occupied	Stratified
	Sens Load To Stratified Btu/h	Load To Stratified Btu/h	Sens Load To Stratified Btu/h	Total To Stratified Btu/h	Conduction To Stratified Btu/h	Conduction To Stratified Btu/h	Load To Stratified Btu/h	Total To Stratified Btu/h	Lower Layer °F	Upper Layer °F
104 - Board Room North	0	0	0	0	0	0	0	0	0.0	0.0
105 - Furniture Storage	0	0	0	0	0	0	0	0	0.0	0.0
106 - Archive	0	0	0	0	0	0	0	0	0.0	0.0
107 - Mail Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
104 - Board Room South	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
101 - Reception	0	0	0	0	0	0	0	0	0.0	0.0
103 - Reception Desk	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
117 - Fitness Room	0	0	0	0	0	0	0	0	0.0	0.0
118 - Corridor 2	0	0	0	0	0	0	0	0	0.0	0.0
119 - Storage	0	0	0	0	0	0	0	0	0.0	0.0
120 - Mothers Room	0	0	0	0	0	0	0	0	0.0	0.0
121 - Quiet Room	0	0	0	0	0	0	0	0	0.0	0.0
122 - Booth Seating Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
162 - Meeting Room 2	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
163 - Office A1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
164 - Meeting Room 1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
165 - EOC	0	0	0	0	0	0	0	0	0.0	0.0
111 - Library	0	0	0	0	0	0	0	0	0.0	0.0
112 - General Storage	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer °F	Stratified Upper Layer °F
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h		
166 - Corridor 3	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 008	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 008	Zn Block	0	0	0	0	0	0	0	0.0	0.0
160 - Office A2	0	0	0	0	0	0	0	0	0.0	0.0
159 - Office A3	0	0	0	0	0	0	0	0	0.0	0.0
151 - Office B5	0	0	0	0	0	0	0	0	0.0	0.0
150 - Office B6	0	0	0	0	0	0	0	0	0.0	0.0
141 - Office B7	0	0	0	0	0	0	0	0	0.0	0.0
140 - Office B8	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Block	0	0	0	0	0	0	0	0.0	0.0
156 - Office B4	0	0	0	0	0	0	0	0	0.0	0.0
155 - Office B3	0	0	0	0	0	0	0	0	0.0	0.0
157 - Office B1	0	0	0	0	0	0	0	0	0.0	0.0
158 - Office B2	0	0	0	0	0	0	0	0	0.0	0.0
154 - Open Collab Area	0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 East	0	0	0	0	0	0	0	0	0.0	0.0
161 - Corridor 5	0	0	0	0	0	0	0	0	0.0	0.0
152 - Corridor 6	0	0	0	0	0	0	0	0	0.0	0.0
168 - Future Office 6	0	0	0	0	0	0	0	0	0.0	0.0
167 - Future Office 7	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Block	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Eas'	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Block	0	0	0	0	0	0	0	0.0	0.0
148 - Office B11	0	0	0	0	0	0	0	0	0.0	0.0
139 - Office B9	0	0	0	0	0	0	0	0	0.0	0.0
135 - Office C2	0	0	0	0	0	0	0	0	0.0	0.0
136 - Office C1	0	0	0	0	0	0	0	0	0.0	0.0
143 - Office B10	0	0	0	0	0	0	0	0	0.0	0.0
144 - Office B14	0	0	0	0	0	0	0	0	0.0	0.0
147 - Office B12	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People	Lighting	Misc	Internal Lds	Wall	Glass	Solar	Envelope	Occupied	Stratified
	Sens Load To Stratified Btu/h	Load To Stratified Btu/h	Sens Load To Stratified Btu/h	Total To Stratified Btu/h	Conduction To Stratified Btu/h	Conduction To Stratified Btu/h	Load To Stratified Btu/h	Total To Stratified Btu/h	Lower Layer °F	Upper Layer °F
149 - Corridor 7 North	0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 West	0	0	0	0	0	0	0	0	0.0	0.0
142 - Corridor 8	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 North	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 012	Zn Block	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Wes	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 013	Zn Block	0	0	0	0	0	0	0	0.0	0.0
130 - Office C3	0	0	0	0	0	0	0	0	0.0	0.0
129 - Office C4	0	0	0	0	0	0	0	0	0.0	0.0
169 - Future Office 5	0	0	0	0	0	0	0	0	0.0	0.0
145 - Office B13	0	0	0	0	0	0	0	0	0.0	0.0
146 - Copy Print	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 South	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 East	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 North	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 South	0	0	0	0	0	0	0	0	0.0	0.0
170 - Future Office 4	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 014	Zn Block	0	0	0	0	0	0	0	0.0	0.0
138 - Open Meeting Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 015	Zn Block	0	0	0	0	0	0	0	0.0	0.0
127 - Future Office 3	0	0	0	0	0	0	0	0	0.0	0.0
128 - Future Office 2	0	0	0	0	0	0	0	0	0.0	0.0
131 - Future Office 1	0	0	0	0	0	0	0	0	0.0	0.0
132 - Office B16	0	0	0	0	0	0	0	0	0.0	0.0
133 - Office B15	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 016	Zn Block	0	0	0	0	0	0	0	0.0	0.0
126 - AV Studio	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
System Zone Room											
Zone - 017	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
125 - AV Control Room		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
124 - Break Room		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
123 - Open Collab Area 3		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

Alternative 1

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
104 - Board Room North		0	0	0.000	0	0	0.000	0	0	0.000
105 - Furnature Storage		0	0	0.000	0	0	0.000	0	0	0.000
106 - Archive		0	0	0.000	0	0	0.000	0	0	0.000
107 - Mail Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 001	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 001	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
104 - Board Room South		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 002	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 002	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
101 - Reception		0	0	0.000	0	0	0.000	0	0	0.000
103 - Reception Desk		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 003	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 003	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
117 - Fitness Room		0	0	0.000	0	0	0.000	0	0	0.000
118 - Corridor 2		0	0	0.000	0	0	0.000	0	0	0.000
119 - Storage		0	0	0.000	0	0	0.000	0	0	0.000
120 - Mothers Room		0	0	0.000	0	0	0.000	0	0	0.000
121 - Quiet Room		0	0	0.000	0	0	0.000	0	0	0.000
122 - Booth Seating Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 004	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 004	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
162 - Meeting Room 2		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 005	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 005	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
163 - Office A1		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 006	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 006	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
164 - Meeting Room 1		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 007	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 007	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
165 - EOC		0	0	0.000	0	0	0.000	0	0	0.000
111 - Library		0	0	0.000	0	0	0.000	0	0	0.000
112 - General Storage		0	0	0.000	0	0	0.000	0	0	0.000
166 - Corridor 3		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 008	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 008	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
160 - Office A2		0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	LIGHTS			PEOPLE			MISC. EQUIPMENT		
	Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
	Load	Load		Sensible	Sensible		Sensible	Sensible	
	Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
159 - Office A3	0	0	0.000	0	0	0.000	0	0	0.000
151 - Office B5	0	0	0.000	0	0	0.000	0	0	0.000
150 - Office B6	0	0	0.000	0	0	0.000	0	0	0.000
141 - Office B7	0	0	0.000	0	0	0.000	0	0	0.000
140 - Office B8	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 009	Zn Tot/Ave	0	0	0	0	0.000	0	0	0.000
Zone - 009	Zn Block	0	0	0	0	0.000	0	0	0.000
156 - Office B4	0	0	0.000	0	0	0.000	0	0	0.000
155 - Office B3	0	0	0.000	0	0	0.000	0	0	0.000
157 - Office B1	0	0	0.000	0	0	0.000	0	0	0.000
158 - Office B2	0	0	0.000	0	0	0.000	0	0	0.000
154 - Open Collab Area	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 East	0	0	0.000	0	0	0.000	0	0	0.000
161 - Corridor 5	0	0	0.000	0	0	0.000	0	0	0.000
152 - Corridor 6	0	0	0.000	0	0	0.000	0	0	0.000
168 - Future Office 6	0	0	0.000	0	0	0.000	0	0	0.000
167 - Future Office 7	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 010	Zn Tot/Ave	0	0	0	0	0.000	0	0	0.000
Zone - 010	Zn Block	0	0	0	0	0.000	0	0	0.000
172 - Multi-Purpose Room East	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 011	Zn Tot/Ave	0	0	0	0	0.000	0	0	0.000
Zone - 011	Zn Block	0	0	0	0	0.000	0	0	0.000
148 - Office B11	0	0	0.000	0	0	0.000	0	0	0.000
139 - Office B9	0	0	0.000	0	0	0.000	0	0	0.000
135 - Office C2	0	0	0.000	0	0	0.000	0	0	0.000
136 - Office C1	0	0	0.000	0	0	0.000	0	0	0.000
143 - Office B10	0	0	0.000	0	0	0.000	0	0	0.000
144 - Office B14	0	0	0.000	0	0	0.000	0	0	0.000
147 - Office B12	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 North	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 West	0	0	0.000	0	0	0.000	0	0	0.000
142 - Corridor 8	0	0	0.000	0	0	0.000	0	0	0.000
137 - Corridor 9 North	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 012	Zn Tot/Ave	0	0	0	0	0.000	0	0	0.000
Zone - 012	Zn Block	0	0	0	0	0.000	0	0	0.000
172 - Multi-Purpose Room West	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 013	Zn Tot/Ave	0	0	0	0	0.000	0	0	0.000
Zone - 013	Zn Block	0	0	0	0	0.000	0	0	0.000
130 - Office C3	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
129 - Office C4		0	0	0.000	0	0	0.000	0	0	0.000
169 - Future Office 5		0	0	0.000	0	0	0.000	0	0	0.000
145 - Office B13		0	0	0.000	0	0	0.000	0	0	0.000
146 - Copy Print		0	0	0.000	0	0	0.000	0	0	0.000
137 - Corridor 9 South		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 East		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 North		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 South		0	0	0.000	0	0	0.000	0	0	0.000
170 - Future Office 4		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 014	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 014	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
138 - Open Meeting Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 015	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 015	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
127 - Future Office 3		0	0	0.000	0	0	0.000	0	0	0.000
128 - Future Office 2		0	0	0.000	0	0	0.000	0	0	0.000
131 - Future Office 1		0	0	0.000	0	0	0.000	0	0	0.000
132 - Office B16		0	0	0.000	0	0	0.000	0	0	0.000
133 - Office B15		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 016	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 016	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
126 - AV Studio		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 017	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 017	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
125 - AV Control Room		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 018	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 018	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
124 - Break Room		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 019	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 019	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
123 - Open Collab Area 3		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 020	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 020	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
VAV AHU - 1st Floor	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
104 - Board Room North	0	0	0	0	0	0	0	0	0.0	0.0
105 - Furniture Storage	0	0	0	0	0	0	0	0	0.0	0.0
106 - Archive	0	0	0	0	0	0	0	0	0.0	0.0
107 - Mail Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 001	Zn Block	0	0	0	0	0	0	0	0.0	0.0
104 - Board Room South	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 002	Zn Block	0	0	0	0	0	0	0	0.0	0.0
101 - Reception	0	0	0	0	0	0	0	0	0.0	0.0
103 - Reception Desk	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 003	Zn Block	0	0	0	0	0	0	0	0.0	0.0
117 - Fitness Room	0	0	0	0	0	0	0	0	0.0	0.0
118 - Corridor 2	0	0	0	0	0	0	0	0	0.0	0.0
119 - Storage	0	0	0	0	0	0	0	0	0.0	0.0
120 - Mothers Room	0	0	0	0	0	0	0	0	0.0	0.0
121 - Quiet Room	0	0	0	0	0	0	0	0	0.0	0.0
122 - Booth Seating Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 004	Zn Block	0	0	0	0	0	0	0	0.0	0.0
162 - Meeting Room 2	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 005	Zn Block	0	0	0	0	0	0	0	0.0	0.0
163 - Office A1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 006	Zn Block	0	0	0	0	0	0	0	0.0	0.0
164 - Meeting Room 1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 007	Zn Block	0	0	0	0	0	0	0	0.0	0.0
165 - EOC	0	0	0	0	0	0	0	0	0.0	0.0
111 - Library	0	0	0	0	0	0	0	0	0.0	0.0
112 - General Storage	0	0	0	0	0	0	0	0	0.0	0.0
166 - Corridor 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
System Zone	Room										
Zone - 008	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 008	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	160 - Office A2	0	0	0	0	0	0	0	0	0.0	0.0
	159 - Office A3	0	0	0	0	0	0	0	0	0.0	0.0
	151 - Office B5	0	0	0	0	0	0	0	0	0.0	0.0
	150 - Office B6	0	0	0	0	0	0	0	0	0.0	0.0
	141 - Office B7	0	0	0	0	0	0	0	0	0.0	0.0
	140 - Office B8	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 009	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	156 - Office B4	0	0	0	0	0	0	0	0	0.0	0.0
	155 - Office B3	0	0	0	0	0	0	0	0	0.0	0.0
	157 - Office B1	0	0	0	0	0	0	0	0	0.0	0.0
	158 - Office B2	0	0	0	0	0	0	0	0	0.0	0.0
	154 - Open Collab Area	0	0	0	0	0	0	0	0	0.0	0.0
	149 - Corridor 7 East	0	0	0	0	0	0	0	0	0.0	0.0
	161 - Corridor 5	0	0	0	0	0	0	0	0	0.0	0.0
	152 - Corridor 6	0	0	0	0	0	0	0	0	0.0	0.0
	168 - Future Office 6	0	0	0	0	0	0	0	0	0.0	0.0
	167 - Future Office 7	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 010	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	172 - Multi-Purpose Room Eas	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 011	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	148 - Office B11	0	0	0	0	0	0	0	0	0.0	0.0
	139 - Office B9	0	0	0	0	0	0	0	0	0.0	0.0
	135 - Office C2	0	0	0	0	0	0	0	0	0.0	0.0
	136 - Office C1	0	0	0	0	0	0	0	0	0.0	0.0
	143 - Office B10	0	0	0	0	0	0	0	0	0.0	0.0
	144 - Office B14	0	0	0	0	0	0	0	0	0.0	0.0
	147 - Office B12	0	0	0	0	0	0	0	0	0.0	0.0
	149 - Corridor 7 North	0	0	0	0	0	0	0	0	0.0	0.0
	149 - Corridor 7 West	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
142 - Corridor 8	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 North	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Wes	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
130 - Office C3	0	0	0	0	0	0	0	0	0.0	0.0
129 - Office C4	0	0	0	0	0	0	0	0	0.0	0.0
169 - Future Office 5	0	0	0	0	0	0	0	0	0.0	0.0
145 - Office B13	0	0	0	0	0	0	0	0	0.0	0.0
146 - Copy Print	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 South	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 East	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 North	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 South	0	0	0	0	0	0	0	0	0.0	0.0
170 - Future Office 4	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
138 - Open Meeting Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
127 - Future Office 3	0	0	0	0	0	0	0	0	0.0	0.0
128 - Future Office 2	0	0	0	0	0	0	0	0	0.0	0.0
131 - Future Office 1	0	0	0	0	0	0	0	0	0.0	0.0
132 - Office B16	0	0	0	0	0	0	0	0	0.0	0.0
133 - Office B15	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
126 - AV Studio	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
125 - AV Control Room	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People	Lighting	Misc	Internal Lds	Wall	Glass	Solar	Envelope	Occupied	Stratified
	Sens Load To Stratified Btu/h	Load To Stratified Btu/h	Sens Load To Stratified Btu/h	Total To Stratified Btu/h	Conduction To Stratified Btu/h	Conduction To Stratified Btu/h	Load To Stratified Btu/h	Total To Stratified Btu/h	Lower Layer °F	Upper Layer °F
Zone - 018	Zn Block	0	0	0	0	0	0	0	0.0	0.0
124 - Break Room		0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Block	0	0	0	0	0	0	0	0.0	0.0
123 - Open Collab Area 3		0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Block	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Block	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

Alternative 1

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space Load Btu/h	Plenum Load Btu/h	CLF	Space Sensible Btu/h	Ret Air Sensible Btu/h	CLF	Space Sensible Btu/h	Plenum Sensible Btu/h	CLF
104 - Board Room North		0	0	0.000	0	0	0.000	0	0	0.000
105 - Furnature Storage		0	0	0.000	0	0	0.000	0	0	0.000
106 - Archive		0	0	0.000	0	0	0.000	0	0	0.000
107 - Mail Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 001	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 001	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
104 - Board Room South		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 002	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 002	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
101 - Reception		0	0	0.000	0	0	0.000	0	0	0.000
103 - Reception Desk		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 003	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 003	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
117 - Fitness Room		0	0	0.000	0	0	0.000	0	0	0.000
118 - Corridor 2		0	0	0.000	0	0	0.000	0	0	0.000
119 - Storage		0	0	0.000	0	0	0.000	0	0	0.000
120 - Mothers Room		0	0	0.000	0	0	0.000	0	0	0.000
121 - Quiet Room		0	0	0.000	0	0	0.000	0	0	0.000
122 - Booth Seating Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 004	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 004	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
162 - Meeting Room 2		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 005	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 005	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
163 - Office A1		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 006	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 006	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
164 - Meeting Room 1		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 007	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 007	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
165 - EOC		0	0	0.000	0	0	0.000	0	0	0.000
111 - Library		0	0	0.000	0	0	0.000	0	0	0.000
112 - General Storage		0	0	0.000	0	0	0.000	0	0	0.000
166 - Corridor 3		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 008	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 008	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	LIGHTS			PEOPLE			MISC. EQUIPMENT		
	Space Load Btu/h	Plenum Load Btu/h	CLF	Space Sensible Btu/h	Ret Air Sensible Btu/h	CLF	Space Sensible Btu/h	Plenum Sensible Btu/h	CLF
160 - Office A2	0	0	0.000	0	0	0.000	0	0	0.000
159 - Office A3	0	0	0.000	0	0	0.000	0	0	0.000
151 - Office B5	0	0	0.000	0	0	0.000	0	0	0.000
150 - Office B6	0	0	0.000	0	0	0.000	0	0	0.000
141 - Office B7	0	0	0.000	0	0	0.000	0	0	0.000
140 - Office B8	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 009 Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 009 Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
156 - Office B4	0	0	0.000	0	0	0.000	0	0	0.000
155 - Office B3	0	0	0.000	0	0	0.000	0	0	0.000
157 - Office B1	0	0	0.000	0	0	0.000	0	0	0.000
158 - Office B2	0	0	0.000	0	0	0.000	0	0	0.000
154 - Open Collab Area	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 East	0	0	0.000	0	0	0.000	0	0	0.000
161 - Corridor 5	0	0	0.000	0	0	0.000	0	0	0.000
152 - Corridor 6	0	0	0.000	0	0	0.000	0	0	0.000
168 - Future Office 6	0	0	0.000	0	0	0.000	0	0	0.000
167 - Future Office 7	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 010 Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 010 Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
172 - Multi-Purpose Room East	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 011 Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 011 Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
148 - Office B11	0	0	0.000	0	0	0.000	0	0	0.000
139 - Office B9	0	0	0.000	0	0	0.000	0	0	0.000
135 - Office C2	0	0	0.000	0	0	0.000	0	0	0.000
136 - Office C1	0	0	0.000	0	0	0.000	0	0	0.000
143 - Office B10	0	0	0.000	0	0	0.000	0	0	0.000
144 - Office B14	0	0	0.000	0	0	0.000	0	0	0.000
147 - Office B12	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 North	0	0	0.000	0	0	0.000	0	0	0.000
149 - Corridor 7 West	0	0	0.000	0	0	0.000	0	0	0.000
142 - Corridor 8	0	0	0.000	0	0	0.000	0	0	0.000
137 - Corridor 9 North	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 012 Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 012 Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
172 - Multi-Purpose Room West	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 013 Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		LIGHTS			PEOPLE			MISC. EQUIPMENT		
System Zone Room		Space Load Btu/h	Plenum Load Btu/h	CLF	Space Sensible Btu/h	Ret Air Sensible Btu/h	CLF	Space Sensible Btu/h	Plenum Sensible Btu/h	CLF
Zone - 013	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
130 - Office C3		0	0	0.000	0	0	0.000	0	0	0.000
129 - Office C4		0	0	0.000	0	0	0.000	0	0	0.000
169 - Future Office 5		0	0	0.000	0	0	0.000	0	0	0.000
145 - Office B13		0	0	0.000	0	0	0.000	0	0	0.000
146 - Copy Print		0	0	0.000	0	0	0.000	0	0	0.000
137 - Corridor 9 South		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 East		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 North		0	0	0.000	0	0	0.000	0	0	0.000
171 - Corridor 4 South		0	0	0.000	0	0	0.000	0	0	0.000
170 - Future Office 4		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 014	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 014	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
138 - Open Meeting Area		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 015	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 015	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
127 - Future Office 3		0	0	0.000	0	0	0.000	0	0	0.000
128 - Future Office 2		0	0	0.000	0	0	0.000	0	0	0.000
131 - Future Office 1		0	0	0.000	0	0	0.000	0	0	0.000
132 - Office B16		0	0	0.000	0	0	0.000	0	0	0.000
133 - Office B15		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 016	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 016	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
126 - AV Studio		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 017	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 017	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
125 - AV Control Room		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 018	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 018	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
124 - Break Room		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 019	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 019	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
123 - Open Collab Area 3		0	0	0.000	0	0	0.000	0	0	0.000
Zone - 020	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Zone - 020	Zn Block	0	0	0.000	0	0	0.000	0	0	0.000
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
VAV AHU - 1st Floor	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
104 - Board Room North	0	0	0	0	0	0	0	0	0.0	0.0
105 - Furniture Storage	0	0	0	0	0	0	0	0	0.0	0.0
106 - Archive	0	0	0	0	0	0	0	0	0.0	0.0
107 - Mail Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 001 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
104 - Board Room South	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 002 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
101 - Reception	0	0	0	0	0	0	0	0	0.0	0.0
103 - Reception Desk	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 003 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
117 - Fitness Room	0	0	0	0	0	0	0	0	0.0	0.0
118 - Corridor 2	0	0	0	0	0	0	0	0	0.0	0.0
119 - Storage	0	0	0	0	0	0	0	0	0.0	0.0
120 - Mothers Room	0	0	0	0	0	0	0	0	0.0	0.0
121 - Quiet Room	0	0	0	0	0	0	0	0	0.0	0.0
122 - Booth Seating Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 004 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
162 - Meeting Room 2	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 005 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
163 - Office A1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 006 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
164 - Meeting Room 1	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 007 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
165 - EOC	0	0	0	0	0	0	0	0	0.0	0.0
111 - Library	0	0	0	0	0	0	0	0	0.0	0.0
112 - General Storage	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
		People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
System	Zone Room	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
	166 - Corridor 3	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 008 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 008 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	160 - Office A2	0	0	0	0	0	0	0	0	0.0	0.0
	159 - Office A3	0	0	0	0	0	0	0	0	0.0	0.0
	151 - Office B5	0	0	0	0	0	0	0	0	0.0	0.0
	150 - Office B6	0	0	0	0	0	0	0	0	0.0	0.0
	141 - Office B7	0	0	0	0	0	0	0	0	0.0	0.0
	140 - Office B8	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 009 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 009 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	156 - Office B4	0	0	0	0	0	0	0	0	0.0	0.0
	155 - Office B3	0	0	0	0	0	0	0	0	0.0	0.0
	157 - Office B1	0	0	0	0	0	0	0	0	0.0	0.0
	158 - Office B2	0	0	0	0	0	0	0	0	0.0	0.0
	154 - Open Collab Area	0	0	0	0	0	0	0	0	0.0	0.0
	149 - Corridor 7 East	0	0	0	0	0	0	0	0	0.0	0.0
	161 - Corridor 5	0	0	0	0	0	0	0	0	0.0	0.0
	152 - Corridor 6	0	0	0	0	0	0	0	0	0.0	0.0
	168 - Future Office 6	0	0	0	0	0	0	0	0	0.0	0.0
	167 - Future Office 7	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 010 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 010 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	172 - Multi-Purpose Room Eas	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 011 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
	Zone - 011 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
	148 - Office B11	0	0	0	0	0	0	0	0	0.0	0.0
	139 - Office B9	0	0	0	0	0	0	0	0	0.0	0.0
	135 - Office C2	0	0	0	0	0	0	0	0	0.0	0.0
	136 - Office C1	0	0	0	0	0	0	0	0	0.0	0.0
	143 - Office B10	0	0	0	0	0	0	0	0	0.0	0.0
	144 - Office B14	0	0	0	0	0	0	0	0	0.0	0.0
	147 - Office B12	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People	Lighting	Misc	Internal Lds	Wall	Glass	Solar	Envelope	Occupied	Stratified
	Sens Load To Stratified Btu/h	Load To Stratified Btu/h	Sens Load To Stratified Btu/h	Total To Stratified Btu/h	Conduction To Stratified Btu/h	Conduction To Stratified Btu/h	Load To Stratified Btu/h	Total To Stratified Btu/h	Lower Layer °F	Upper Layer °F
149 - Corridor 7 North	0	0	0	0	0	0	0	0	0.0	0.0
149 - Corridor 7 West	0	0	0	0	0	0	0	0	0.0	0.0
142 - Corridor 8	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 North	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 012 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
172 - Multi-Purpose Room Wes	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 013 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
130 - Office C3	0	0	0	0	0	0	0	0	0.0	0.0
129 - Office C4	0	0	0	0	0	0	0	0	0.0	0.0
169 - Future Office 5	0	0	0	0	0	0	0	0	0.0	0.0
145 - Office B13	0	0	0	0	0	0	0	0	0.0	0.0
146 - Copy Print	0	0	0	0	0	0	0	0	0.0	0.0
137 - Corridor 9 South	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 East	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 North	0	0	0	0	0	0	0	0	0.0	0.0
171 - Corridor 4 South	0	0	0	0	0	0	0	0	0.0	0.0
170 - Future Office 4	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 014 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
138 - Open Meeting Area	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 015 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
127 - Future Office 3	0	0	0	0	0	0	0	0	0.0	0.0
128 - Future Office 2	0	0	0	0	0	0	0	0	0.0	0.0
131 - Future Office 1	0	0	0	0	0	0	0	0	0.0	0.0
132 - Office B16	0	0	0	0	0	0	0	0	0.0	0.0
133 - Office B15	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 016 Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
126 - AV Studio	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 017 Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT SPACE PEAK

By MacDonald-Miller Facility Solutions

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
		People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
System Zone Room		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
Zone - 017	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
125 - AV Control Room		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 018	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
124 - Break Room		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 019	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
123 - Open Collab Area 3		0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Zone - 020	Zn Block	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
VAV AHU - 1st Floor	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0