TOWER HVAC LOADS

System Checksums
By WSP USA INC.

Bldg A — Fan Coil

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: Sum of; OADB: Peaks
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	27,847	0	27,847	2	28,874	3
Glass Solar	193,638	0	193,638	15	302,448	32
Glass/Door Cond	120,100	0	120,100	9	79,982	9
Wall Cond	65,321	0	65,321	5	72,508	8
Partition/Door	3,413		3,413	0	4,221	0
Floor	-1,891		-1,891	0	-1,693.77	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	22,001		22,001	2	9,418	1
Sub Total ==>	430,428	0	430,428	34	495,758	53
Internal Loads						
Lights	140,762	35,190	175,952	14	140,762	15
People	279,773	0	279,773	22	143,565	15
Misc	151,724	0	151,724	12	151,724	16
Sub Total ==>	572,258	35,190	607,449	48	436,051	47
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	236,446	19	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-4,984	-4,984	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	1,002,686	30,207	1,269,339	100.00	931,808	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-39,143	-39,143	2.86
Glass Solar	0	0	0.00
Glass/Door Cond	-586,918	-586,918	42.91
Wall Cond	-152,289	-152,289	11.13
Partition/Door	-65,347	-65,347	4.78
Floor	-99,416	-99,416	7.27
Adjacent Floor	0.00	0.00	0.00
Infiltration	-52,892	-52,892	3.87
Sub Total ==>	-996,005	-996,005	72.82
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-582,231	42.57
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		210,380	-15.38
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-996,005	-1,367,857	100.00

TEMPERATURES	Cooling	Heating
SADB	57.8	94.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	77.1	56.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	60,807	43,936
Terminal	60,807	43,936
Main Fan	60,807	43,936
Sec Fan	0	0
Nom Vent	7,989	7,989
AHU Vent	7,989	7,989
Infil	726	726
MinStop/Rh	0	0
Return	61,533	44,662
Exhaust	8,714	8,714
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	13.1	18.2
cfm/ft²	0.81	0.59
cfm/ton	499.87	
ft²/ton	613.89	
Btu/hr-ft²	19.55	-33.02
No. People	515	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	121.7	1,459.7	1,033.0	60,807	77.1	62.4	76.1	57.8	53.9	66.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	121.7	1,459.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	74,677		
Part	23,376		
Int Door	1		
ExFlr	18,449		
Roof	15,886	0	0
Wall	48,867	17,965	37
Ext Door	58	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2,466.0	43,936	46.5	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2,466.0			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
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System Checksums
By WSP USA INC.

Bldg B — Fan Coil

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: Sum of; OADB: Peaks
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	25,952	0	25,952	2	23,918	2
Glass Solar	303,580	0	303,580	26	437,718	44
Glass/Door Cond	141,412	0	141,412	12	99,657	10
Wall Cond	82,301	0	82,301	7	91,850	9
Partition/Door	-18,958		-18,958	-2	-18,852	-2
Floor	-1,131		-1,131	0	-794.54	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	15,728		15,728	1	9,021	1
Sub Total ==>	548,883	0	548,883	48	642,518	64
Internal Loads						
Lights	132,206	33,052	165,258	14	132,206	13
People	200,840	0	200,840	17	111,578	11
Misc	114,644	0	114,644	10	114,644	11
Sub Total ==>	447,690	33,052	480,741	42	358,428	36
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	113,941	10	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		8,822	8,822	1		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	996,573	41,874	1,152,388	100.00	1,000,946	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-32,614	-32,614	2.44
Glass Solar	0	0	0.00
Glass/Door Cond	-685,992	-685,992	51.25
Wall Cond	-172,686	-172,686	12.90
Partition/Door	-18,538	-18,538	1.39
Floor	-62,072	-62,072	4.64
Adjacent Floor	0.00	0.00	0.00
Infiltration	-56,518	-56,518	4.22
Sub Total ==>	-1,028,419	-1,028,419	76.84
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-449,819	33.61
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		139,790	-10.44
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-1,028,419	-1,338,448	100.00

TEMPERATURES	Cooling	Heating
SADB	59.1	88.6
Ra Plenum	120.0	50.0
Return	74.7	69.9
Ret/OA	76.3	61.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	70,056	58,087
Terminal	70,056	58,087
Main Fan	70,056	58,087
Sec Fan	0	0
Nom Vent	6,244	6,244
AHU Vent	6,244	6,244
Infil	783	783
MinStop/Rh	0	0
Return	70,839	58,870
Exhaust	7,028	7,028
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	8.9	10.7
cfm/ft²	0.88	0.73
cfm/ton	634.35	
ft²/ton	723.03	
Btu/hr-ft²	16.60	-28.93
No. People	446	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	110.4	1,325.3	1,041.4	70,056	76.3	63.9	85.2	59.1	57.5	80.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	110.4	1,325.3								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	79,849		
Part	10,259		
Int Door	1		
ExFlr	11,487		
Roof	13,236	0	0
Wall	56,030	20,988	37
Ext Door	87	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2,309.8	58,087	55.0	88.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2,309.8			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
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System Checksums
By WSP USA INC.

Bldg C — Fan Coil

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: Sum of; OADB: Peaks
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	24,809	0	24,809	3	22,124	3
Glass Solar	181,717	0	181,717	19	281,059	36
Glass/Door Cond	98,441	0	98,441	10	69,397	9
Wall Cond	51,971	0	51,971	5	61,322	8
Partition/Door	2,214		2,214	0	2,192	0
Floor	-939		-939	0	21.09	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	19,274		19,274	2	7,349	1
Sub Total ==>	377,488	0	377,488	39	443,464	56
Internal Loads						
Lights	101,355	25,339	126,694	13	101,355	13
People	149,967	0	149,967	16	83,315	11
Misc	78,821	0	78,821	8	78,821	10
Sub Total ==>	330,143	25,339	355,482	37	263,491	34
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	154,641	16	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	79,271		79,271	8	79,271	10
Exhaust Heat		-3,204	-3,204	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	786,903	22,135	963,679	100.00	786,226	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-31,244	-31,244	3.00
Glass Solar	0	0	0.00
Glass/Door Cond	-477,009	-477,009	45.80
Wall Cond	-113,693	-113,693	10.92
Partition/Door	-28,840	-28,840	2.77
Floor	-46,928	-46,928	4.51
Adjacent Floor	0.00	0.00	0.00
Infiltration	-45,079	-45,079	4.33
Sub Total ==>	-742,792	-742,792	71.31
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-363,440	34.89
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	588	588	-0.06
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		64,052	-6.15
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-742,204	-1,041,592	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.6	60.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	43,719	39,207
Terminal	43,719	39,207
Main Fan	43,719	39,207
Sec Fan	0	0
Nom Vent	4,987	4,987
AHU Vent	4,987	4,987
Infil	619	619
MinStop/Rh	0	0
Return	44,337	39,826
Exhaust	5,605	5,605
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.4	12.7
cfm/ft²	0.67	0.60
cfm/ton	478.52	
ft²/ton	709.68	
Btu/hr-ft²	16.91	-26.64
No. People	333	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	91.4	1,096.3	819.9	43,719	76.6	61.2	70.5	55.0	51.9	62.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	91.4	1,096.3								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	64,838		
Part	7,236		
Int Door	1		
ExFlr	9,517		
Roof	12,680	0	0
Wall	37,680	14,609	39
Ext Door	29	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1,727.6	39,207	52.8	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1,727.6			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
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System Checksums
By WSP USA INC.

AHU-A-1-1 restaurant (Future) — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	7,315	0	7,315	4	11,331	13
Glass/Door Cond	9,133	0	9,133	6	7,152	8
Wall Cond	3,272	0	3,272	2	4,283	5
Partition/Door	0		0	0	0	0
Floor	-374		-374	0	-148.12	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	1,119		1,119	1	434	0
Sub Total ==>	20,464	0	20,464	12	23,053	26
Internal Loads						
Lights	9,387	2,347	11,734	7	9,387	11
People	38,136	0	38,136	23	19,170	22
Misc	36,799	0	36,799	22	36,799	41
Sub Total ==>	84,322	2,347	86,669	52	65,356	73
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	56,041	34	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	3,645		3,645	2	599	1
Exhaust Heat		-876	-876	-1		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	108,431	1,471	165,943	100.00	89,008	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	-45,097	-45,097	16.64
Wall Cond	-8,340	-8,340	3.08
Partition/Door	0	0	0.00
Floor	-13,501	-13,501	4.98
Adjacent Floor	0.00	0.00	0.00
Infiltration	-2,655	-2,655	0.98
Sub Total ==>	-69,593	-69,593	25.67
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-133,002	49.07
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	-24,100	-24,100	8.89
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-44,360	16.37
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-93,693	-271,054	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	81.4	41.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	4,949	4,949
Terminal	4,949	4,949
Main Fan	4,949	4,949
Sec Fan	4,949	4,949
Nom Vent	1,825	1,825
AHU Vent	1,825	1,825
Infil	36	36
MinStop/Rh	1,912	4,949
Return	4,986	4,986
Exhaust	1,861	1,861
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	36.9	36.9
cfm/ft²	1.44	1.44
cfm/ton	312.12	
ft²/ton	216.81	
Btu/hr-ft²	55.35	-98.55
No. People	70	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	15.9	190.3	123.6	4,949	81.4	64.6	80.5	55.0	50.8	58.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	15.9	190.3								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	3,438		
Part	0		
Int Door	1		
ExFlr	3,438		
Roof	0	0	0
Wall	3,075	1,382	45
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-205.0	4,949	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-133.9	1,825	-7.0	55.0
Reheat	-87.8	4,949	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-338.8			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:36 AM on 05/19/2022
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AMENITY SYSTEM HVAC LOADS

System Checksums
By WSP USA INC.

AHU-A-1-2 — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 17; OADB: 90
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	6,074	0	6,074	2	6,985	3
Glass Solar	43,978	0	43,978	12	51,490	24
Glass/Door Cond	25,354	0	25,354	7	23,286	11
Wall Cond	17,511	0	17,511	5	18,225	9
Partition/Door	656		656	0	766	0
Floor	-1,411		-1,411	0	-984.71	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	3,615		3,615	1	1,806	1
Sub Total ==>	95,777	0	95,777	27	101,573	48
Internal Loads						
Lights	30,914	7,728	38,642	11	30,914	15
People	76,742	0	76,742	22	34,148	16
Misc	31,761	0	31,761	9	31,761	15
Sub Total ==>	139,416	7,728	147,145	42	96,822	46
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	94,006	27	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	19,678		19,678	6	12,425	6
Exhaust Heat		-2,095	-2,095	-1		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	254,871	5,633	354,510	100.00	210,821	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-8,548	-8,548	1.50
Glass Solar	0	0	0.00
Glass/Door Cond	-125,989	-125,989	22.11
Wall Cond	-40,778	-40,778	7.16
Partition/Door	-4,114	-4,114	0.72
Floor	-52,182	-52,182	9.16
Adjacent Floor	0.00	0.00	0.00
Infiltration	-8,664	-8,664	1.52
Sub Total ==>	-240,275	-240,275	42.17
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-225,299	39.54
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	18,358	18,358	-3.22
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-122,548	21.51
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-221,917	-569,765	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	79.6	49.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	11,723	11,723
Terminal	11,723	11,723
Main Fan	11,723	11,723
Sec Fan	11,723	11,723
Nom Vent	3,091	3,091
AHU Vent	3,091	3,091
Infil	119	119
MinStop/Rh	3,749	11,723
Return	11,842	11,842
Exhaust	3,210	3,210
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	26.4	26.4
cfm/ft²	1.04	1.04
cfm/ton	347.57	
ft²/ton	335.69	
Btu/hr-ft²	35.75	-62.90
No. People	84	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	33.7	404.7	272.6	11,723	79.6	63.7	78.7	55.0	51.2	60.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	33.7	404.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	11,322		
Part	753		
Int Door	1		
ExFlr	13,288		
Roof	3,469	0	0
Wall	12,110	3,835	32
Ext Door	58	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-485.4	11,723	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-226.8	3,091	-7.0	55.0
Reheat	-208.1	11,723	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-712.2			

Project Name:
Dataset Name: SOMMET220519.TRC
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System Checksums
By WSP USA INC.

AHU-A-B1-1 — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 16; OADB: 92
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	0	0	0	0	0	0
Glass/Door Cond	0	0	0	0	0	0
Wall Cond	0	0	0	0	0	0
Partition/Door	3,231		3,231	2	3,872	4
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	3,286		3,286	2	1,989	2
Sub Total ==>	6,517	0	6,517	3	5,861	6
Internal Loads						
Lights	29,947	7,487	37,434	19	29,947	31
People	51,682	0	51,682	26	27,351	28
Misc	34,482	0	34,482	18	34,482	35
Sub Total ==>	116,111	7,487	123,598	63	91,780	94
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	69,625	35	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	547		547	0	0	0
Exhaust Heat		-3,451	-3,451	-2		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	123,174	4,036	196,835	100.00	97,641	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	0	0	0.00
Partition/Door	-45,972	-45,972	14.23
Floor	-17,956	-17,956	5.56
Adjacent Floor	0.00	0.00	0.00
Infiltration	-8,393	-8,393	2.60
Sub Total ==>	-72,322	-72,322	22.38
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-177,867	55.05
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	-30,467	-30,467	9.43
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-42,442	13.14
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-102,789	-323,099	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	75.4	70.0
Ret/OA	83.4	35.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	5,430	5,430
Terminal	5,430	5,430
Main Fan	5,430	5,430
Sec Fan	5,430	5,430
Nom Vent	2,440	2,440
AHU Vent	2,440	2,440
Infil	115	115
MinStop/Rh	2,138	5,430
Return	5,545	5,545
Exhaust	2,556	2,556
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	44.9	44.9
cfm/ft²	0.50	0.50
cfm/ton	287.96	
ft²/ton	581.65	
Btu/hr-ft²	20.63	-36.82
No. People	109	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	18.9	226.3	146.0	5,430	83.4	65.9	84.2	55.0	51.2	59.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	18.9	226.3								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	10,968		
Part	17,352		
Int Door	1		
ExFlr	457		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-224.9	5,430	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-179.0	2,440	-7.0	55.0
Reheat	-96.4	5,430	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-403.9			

Project Name:
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System Checksums
By WSP USA INC.

AHU-B-B-1 — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 17; OADB: 90
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	0	0	0	0	0	0
Glass/Door Cond	0	0	0	0	0	0
Wall Cond	0	0	0	0	0	0
Partition/Door	-5,852		-5,852	-13	-5,580	-23
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	564		564	1	36	0
Sub Total ==>	-5,288	0	-5,288	-11	-5,544	-23
Internal Loads						
Lights	9,466	2,367	11,833	26	9,466	39
People	3,600	0	3,600	8	2,000	8
Misc	11,833	0	11,833	26	11,833	49
Sub Total ==>	24,899	2,367	27,266	59	23,299	96
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	19,118	41	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	6,566		6,566	14	6,421	27
Exhaust Heat		-1,399	-1,399	-3		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	26,176	967	46,262	100.00	24,177	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	0	0	0.00
Partition/Door	-11,641	-11,641	15.22
Floor	-5,665	-5,665	7.40
Adjacent Floor	0.00	0.00	0.00
Infiltration	-2,084	-2,084	2.72
Sub Total ==>	-19,390	-19,390	25.34
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-48,668	63.61
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	-3,242	-3,242	4.24
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-5,211	6.81
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-22,632	-76,511	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	80.9	68.0
Ret/OA	88.6	20.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	1,091	1,091
Terminal	1,091	1,091
Main Fan	1,091	1,091
Sec Fan	1,091	1,091
Nom Vent	685	685
AHU Vent	685	685
Infil	31	31
MinStop/Rh	460	1,091
Return	1,122	1,122
Exhaust	716	716
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	62.8	62.8
cfm/ft²	0.31	0.31
cfm/ton	250.68	
ft²/ton	796.76	
Btu/hr-ft²	15.06	-27.52
No. People	8	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	4.4	52.2	34.7	1,091	88.6	67.5	85.1	55.0	50.9	58.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	4.4	52.2								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	3,467		
Part	5,519		
Int Door	1		
ExFlr	171		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-45.2	1,091	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-50.2	685	-7.0	55.0
Reheat	-16.9	1,091	55.0	68.1
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-95.4			

Project Name:
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System Checksums
By WSP USA INC.

AHU-B-P1-1 — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	50,771	0	50,771	18	63,427	31
Glass/Door Cond	23,847	0	23,847	9	18,699	9
Wall Cond	15,171	0	15,171	5	15,691	8
Partition/Door	0		0	0	0	0
Floor	-981		-981	0	-419.89	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	4,582		4,582	2	1,752	1
Sub Total ==>	93,390	0	93,390	33	99,150	48
Internal Loads						
Lights	29,215	7,304	36,519	13	29,215	14
People	49,208	0	49,208	18	27,338	13
Misc	39,540	0	39,540	14	39,540	19
Sub Total ==>	117,962	7,304	125,266	45	96,092	46
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	42,133	15	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	20,512		20,512	7	12,708	6
Exhaust Heat		-934	-934	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	231,865	6,370	280,367	100.00	207,951	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	-117,967	-117,967	25.51
Wall Cond	-32,487	-32,487	7.03
Partition/Door	0	0	0.00
Floor	-38,485	-38,485	8.32
Adjacent Floor	0.00	0.00	0.00
Infiltration	-10,708	-10,708	2.32
Sub Total ==>	-199,646	-199,646	43.18
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-98,468	21.30
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	-19,250	-19,250	4.16
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-144,990	31.36
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-218,896	-462,353	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	76.7	61.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	11,563	11,563
Terminal	11,563	11,563
Main Fan	11,563	11,563
Sec Fan	11,563	11,563
Nom Vent	1,351	1,351
AHU Vent	1,351	1,351
Infil	147	147
MinStop/Rh	3,490	11,563
Return	11,710	11,710
Exhaust	1,498	1,498
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.7	11.7
cfm/ft²	1.08	1.08
cfm/ton	434.51	
ft²/ton	402.07	
Btu/hr-ft²	29.85	-54.01
No. People	109	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	26.6	319.4	237.7	11,563	76.7	61.2	70.4	55.0	50.9	58.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	26.6	319.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	10,700		
Part	0		
Int Door	1		
ExFlr	9,800		
Roof	0	0	0
Wall	10,168	3,575	35
Ext Door	87	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-478.8	11,563	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-99.1	1,351	-7.0	55.0
Reheat	-205.2	11,563	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-577.9			

Project Name:
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System Checksums
By WSP USA INC.

AHU-C-1-1 — Series Fan-Powered VAV

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	3,228	0	3,228	2	3,300	4
Glass Solar	15,558	0	15,558	11	24,043	26
Glass/Door Cond	8,745	0	8,745	6	6,885	7
Wall Cond	3,639	0	3,639	3	4,094	4
Partition/Door	519		519	0	521	1
Floor	-471		-471	0	-198.93	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	2,469		2,469	2	952	1
Sub Total ==>	33,687	0	33,687	24	39,596	43
Internal Loads						
Lights	17,887	4,472	22,359	16	17,887	19
People	22,100	0	22,100	16	12,278	13
Misc	21,785	0	21,785	16	21,785	23
Sub Total ==>	61,772	4,472	66,243	48	51,950	56
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	30,417	22	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	8,239		8,239	6	1,239	1
Exhaust Heat		-907	-907	-1		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	103,698	3,565	137,679	100.00	92,785	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-4,098	-4,098	1.79
Glass Solar	0	0	0.00
Glass/Door Cond	-42,988	-42,988	18.80
Wall Cond	-6,023	-6,023	2.63
Partition/Door	-11,208	-11,208	4.90
Floor	-23,103	-23,103	10.11
Adjacent Floor	0.00	0.00	0.00
Infiltration	-5,815	-5,815	2.54
Sub Total ==>	-93,235	-93,235	40.78
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-71,640	31.34
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	-4,434	-4,434	1.94
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		-59,296	25.94
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-97,668	-228,604	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.9	70.0
Ret/OA	78.2	55.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	5,159	5,159
Terminal	5,159	5,159
Main Fan	5,159	5,159
Sec Fan	5,159	5,159
Nom Vent	983	983
AHU Vent	983	983
Infil	80	80
MinStop/Rh	1,618	5,159
Return	5,239	5,239
Exhaust	1,063	1,063
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	19.1	19.1
cfm/ft²	0.79	0.79
cfm/ton	394.11	
ft²/ton	500.41	
Btu/hr-ft²	23.98	-43.62
No. People	49	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	13.1	157.1	113.3	5,159	78.2	62.1	72.5	55.0	50.8	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	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
Total	13.1	157.1								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	6,551		
Part	3,033		
Int Door	1		
ExFlr	4,728		
Roof	1,663	0	0
Wall	2,526	1,304	52
Ext Door	29	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-213.7	5,159	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-72.1	983	-7.0	55.0
Reheat	-91.6	5,159	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-285.8			

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RESIDENTIAL FAN COIL UNITS HVAC LOADS

Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 1

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 19; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	400	0	400	8	1,151	31
Glass/Door Cond	544	0	544	11	332	9
Wall Cond	439	0	439	9	580	15
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	130		130	3	38	1
Sub Total ==>	1,513	0	1,513	32	2,101	56
Internal Loads						
Lights	718	180	898	19	718	19
People	900	0	900	19	500	13
Misc	449	0	449	9	449	12
Sub Total ==>	2,067	180	2,246	47	1,667	44
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	1,004	21	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-26	-26	-1		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	3,580	153	4,736	100.00	3,768	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	-2,610	-2,610	40.98
Wall Cond	-729	-729	11.45
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-345	-345	5.42
Sub Total ==>	-3,684	-3,684	57.86
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-523	8.21
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		-2,161	33.93
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-3,684	-6,368	100.00

TEMPERATURES	Cooling	Heating
SADB	59.7	84.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.0	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	279	279
Terminal	279	279
Main Fan	279	279
Sec Fan	0	0
Nom Vent	37	37
AHU Vent	37	37
Infil	5	5
MinStop/Rh	0	0
Return	284	284
Exhaust	42	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	13.2	13.2
cfm/ft²	0.53	0.53
cfm/ton	609.83	
ft²/ton	1,150.03	
Btu/hr-ft²	10.43	-16.60
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	5.5	3.9	279	77.0	62.4	76.2	59.7	55.5	70.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	37	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	526		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	228	80	35
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.6	279	64.0	84.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	37	-7.0	55.0
Total	-8.7			

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Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 2

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 14; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 11; OADB: 81
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0
Glass Solar	797	0	797	20	1,284	42
Glass/Door Cond	244	0	244	6	60	2
Wall Cond	284	0	284	7	368	12
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	90		90	2	21	1
Sub Total ==>	1,414	0	1,414	36	1,733	57
Internal Loads						
Lights	494	124	618	16	494	16
People	900	0	900	23	500	16
Misc	309	0	309	8	309	10
Sub Total ==>	1,703	124	1,827	47	1,303	43
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	691	18	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-16	-16	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	3,117	107	3,915	100.00	3,036	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	-1,305	-1,305	32.46
Wall Cond	-631	-631	15.69
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-237	-237	5.91
Sub Total ==>	-2,173	-2,173	54.06
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-360	8.95
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		-1,487	36.99
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-2,173	-4,020	100.00

TEMPERATURES	Cooling	Heating
SADB	59.1	80.7
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.6	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	216	216
Terminal	216	216
Main Fan	216	216
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	219	219
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.8	11.8
cfm/ft²	0.60	0.60
cfm/ton	571.15	
ft²/ton	958.79	
Btu/hr-ft²	12.52	-15.04
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.4	4.5	3.2	216	76.6	62.3	75.9	59.1	54.9	68.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	362		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	168	40	24
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.0	216	65.1	80.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-5.4			

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Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 3

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 14; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 12; OADB: 86
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	38	0	38	1	18	0
Glass Solar	3,139	0	3,139	43	3,914	62
Glass/Door Cond	975	0	975	13	538	9
Wall Cond	382	0	382	5	393	6
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	101		101	1	42	1
Sub Total ==>	4,635	0	4,635	63	4,905	78
Internal Loads						
Lights	560	140	700	10	560	9
People	900	0	900	12	500	8
Misc	350	0	350	5	350	6
Sub Total ==>	1,810	140	1,949	26	1,410	22
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	782	11	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-10	-10	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	6,444	130	7,357	100.00	6,315	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-64	-64	0.76
Glass Solar	0	0	0.00
Glass/Door Cond	-5,219	-5,219	61.75
Wall Cond	-808	-808	9.56
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-269	-269	3.18
Sub Total ==>	-6,361	-6,361	75.25
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-407	4.82
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		-1,684	19.93
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-6,361	-8,452	100.00

TEMPERATURES	Cooling	Heating
SADB	59.9	84.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.4	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	473	473
Terminal	473	473
Main Fan	473	473
Sec Fan	0	0
Nom Vent	29	29
AHU Vent	29	29
Infil	4	4
MinStop/Rh	0	0
Return	477	477
Exhaust	32	32
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	6.1	6.1
cfm/ft²	1.15	1.15
cfm/ton	668.38	
ft²/ton	579.30	
Btu/hr-ft²	20.71	-29.90
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.7	8.5	6.6	473	75.4	61.7	74.9	59.9	55.3	69.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	29	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	410		
Part	0		
Int Door	1		
ExFlr	0		
Roof	26	0	0
Wall	324	160	49
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.6	473	65.3	84.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	29	-7.0	55.0
Total	-12.3			

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Zone Checksums
By WSP USA INC.

B602 unit A FCU living room

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17; Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	591	0	591	4	584	5
Glass Solar	5,586	0	5,586	36	6,246	49
Glass/Door Cond	1,737	0	1,737	11	1,478	12
Wall Cond	521	0	521	3	559	4
Partition/Door	0		0	0	0	0
Floor	0		0	0	0.00	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	226		226	1	145	1
Sub Total ==>	8,661	0	8,661	56	9,013	70
Internal Loads						
Lights	1,574	394	1,968	13	1,574	12
People	2,250	0	2,250	14	1,250	10
Misc	984	0	984	6	984	8
Sub Total ==>	4,808	394	5,201	33	3,808	30
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	1,755	11	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Ov Sizing			0	0		
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-38	-38	0		
Sup. Fan Heat			0	0		
Ret. Fan Heat		0	0	0		
Duct Heat Pkup		0	0	0		
Underflr Sup Ht Pkup			0	0		
Supply Air Leakage		0	0	0		
Grand Total ==>	13,468	356	15,580	100.00	12,820	100.00

HEATING COIL PEAK	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-702	-702	4.13
Glass Solar	0	0	0.00
Glass/Door Cond	-8,938	-8,938	52.51
Wall Cond	-743	-743	4.37
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-756	-756	4.44
Sub Total ==>	-11,140	-11,140	65.44
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-1,146	6.73
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		-4,736	27.82
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-11,140	-17,022	100.00

TEMPERATURES	Cooling	Heating
SADB	59.6	82.5
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	939	939
Terminal	939	939
Main Fan	939	939
Sec Fan	0	0
Nom Vent	81	81
AHU Vent	81	81
Infil	10	10
MinStop/Rh	0	0
Return	949	949
Exhaust	91	91
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	8.6	8.6
cfm/ft²	0.81	0.81
cfm/ton	625.63	
ft²/ton	768.33	
Btu/hr-ft²	15.62	-20.76
No. People	5	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.5	17.9	14.0	939	75.8	61.8	74.8	59.6	55.0	68.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	81	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.5	18.0								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	1,153		
Part	0		
Int Door	1		
ExFlr	0		
Roof	285	0	0
Wall	425	274	65
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-19.2	939	65.3	82.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-4.7	81	-7.0	55.0
Total	-23.9			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 10:20 AM on 05/19/2022
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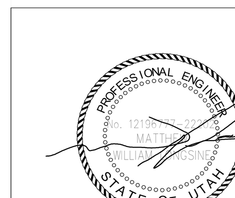

Reserved for permit stamp

Olson Kundig

159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project:
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect ____
project manager ____
drawn by ____
checked by ____
job no.
date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.08