



Load Short Form

Entire House

Atlas Appliance Service

Job: 3705 E Boise Ave
Date: Apr 01, 2025
By: Cody Howard

3606 S Happy Valley Rd, Nampa, ID 83686 Phone: 2084650091 Email: atlasappliance123@gmail.com License: HVC-C-4521

Project Information

For: Raini Bowles
3705 E Boise Ave, Boise, ID

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	11	95	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	60	20	Fireplaces	0
Daily range	-	H		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	52	-27		

HEATING EQUIPMENT

Make	Generic
Trade	
Model	AFUE 92
AHRI ref	
Efficiency	92 AFUE
Heating input	59783 Btuh
Heating output	55000 Btuh
Temperature rise	50 °F
Actual air flow	1110 cfm
Air flow factor	0.024 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Generic
Trade	
Cond	SEER 14.0
Coil	
AHRI ref	
Efficiency	12.2 EER, 14 SEER
Sensible cooling	29400 Btuh
Latent cooling	12600 Btuh
Total cooling	42000 Btuh
Actual air flow	1400 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	1.00

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bed#3	192	3437	1435	83	78
Bed#2	150	3027	1265	73	69
Mech	17	0	0	0	0
M Bath	125	1353	494	33	27
Stairs	106	2484	829	60	45
Bonus Room	645	12313	9980	297	545
Storage	46	1838	540	44	29
Master	295	5874	3971	142	217
WIC	125	465	283	11	15
Bath	95	1923	948	46	52
Bed#4	113	2894	1219	70	66
Bed#5	127	3667	1376	89	75
Stairs2	88	0	0	0	0
Bed#6	170	4823	2394	116	131

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Bath2		36	580	268	14	15
Mbath2		32	1291	656	31	36
Entire House	d	2359	45967	25659	1110	1400
Other equip loads			7266	2442		
Equip. @ 1.00 RSM				28101		
Latent cooling				0		
TOTALS		2359	53233	28101	1110	1400

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Project Information

For: Raini Bowles
 3705 E Boise Ave, Boise, ID

Design Conditions

Location:

Boise Air Terminal, ID, US
 Elevation: 2867 ft
 Latitude: 44°N

Outdoor:

Dry bulb (°F)
 Daily range (°F)
 Wet bulb (°F)
 Wind speed (mph)

Heating

11
 -
 -
 15.0

Cooling

95
 30 (H)
 63
 7.5

Indoor:

Indoor temperature (°F)
 Design TD (°F)
 Relative humidity (%)
 Moisture difference (gr/lb)

Heating

70
 60
 50
 52.5

Cooling

75
 20
 50
 -26.9

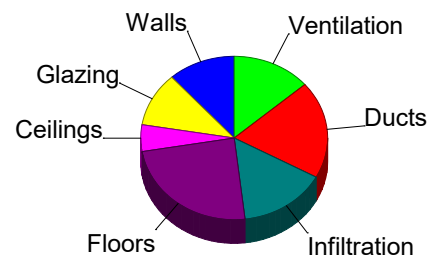
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Average
 0

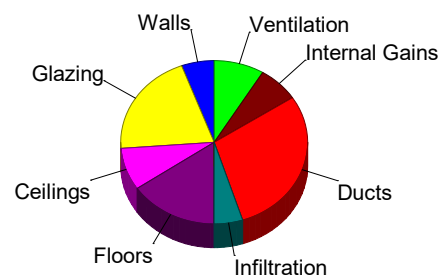
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.9	6203	11.7
Glazing	19.0	5712	10.7
Doors	0	0	0
Ceilings	1.2	2807	5.3
Floors	5.5	12885	24.2
Infiltration	4.2	8076	15.2
Ducts		10284	19.3
Piping		0	0
Humidification		0	0
Ventilation		7266	13.6
Adjustments		0	0
Total		53233	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.0	1595	5.7
Glazing	19.2	5762	20.5
Doors	0	0	0
Ceilings	1.0	2359	8.4
Floors	1.8	4331	15.4
Infiltration	0.7	1390	4.9
Ducts		8222	29.3
Ventilation		2442	8.7
Internal gains		2000	7.1
Blower		0	0
Adjustments		0	0
Total		28101	100.0



Latent Cooling Load = 0 Btuh
 Overall U-value = 0.121 Btuh/ft²-°F

Data entries checked.



Component Constructions
Entire House
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Project Information

For: Raini Bowles
3705 E Boise Ave, Boise, ID

Design Conditions

Location:		Indoor:		Heating	Cooling
Boise Air Terminal, ID, US		Indoor temperature (°F)		70	75
Elevation: 2867 ft		Design TD (°F)		60	20
Latitude: 44°N		Relative humidity (%)		50	50
		Moisture difference (gr/lb)		52.5	-26.9
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	11	95	Method	Simplified	
Daily range (°F)	-	30 (H)	Construction quality	Average	
Wet bulb (°F)	-	63	Fireplaces	0	
Wind speed (mph)	15.0	7.5			

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls 12F-0sw: Frm wall, wd ext, 3/8" wood shth, r-21 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	414	0.065	21.0	3.87	1600	0.99	411
	e	332	0.065	21.0	3.87	1285	0.99	330
	s	487	0.065	21.0	3.87	1883	0.99	484
	w	371	0.065	21.0	3.87	1436	0.99	369
	all	1604	0.065	21.0	3.87	6203	0.99	1595

Partitions (none)

Windows

10B-v: 2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/4" thk; NFRC rated (SHGC=0.31); 6.67 ft head ht	n	35	0.320	0	19.0	666	8.60	301
2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/2" gap, 1/4" thk; 2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/2" gap, 1/4" thk; NFRC rated (SHGC=0.31); 6.67 ft head ht	n	108	0.320	0	19.0	2056	12.3	1327
	e	28	0.320	0	19.0	533	35.4	991
	s	70	0.320	0	19.0	1333	20.4	1425
	w	24	0.320	0	19.0	457	35.4	850
	all	230	0.320	0	19.0	4379	20.0	4593
2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/4" thk; 2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/4" thk; 6.67 ft head ht	e	35	0.320	0	19.0	666	24.8	867

Doors (none)

Ceilings

16B-50ad: Attic ceiling, asphalt shingles roof mat, r-50 ceil ins, 1/2" gypsum board int fnsh	2359	0.020	50.0	1.19	2807	1.00	2359
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Floors

19A-0bscp: Part floor, carpet flr fnsh, frm flr, 8" thkns, 1/2" gypsum board int fnsh	1814	0.295	0	6.59	11959	2.22	4020
19A-30bscp: Part floor, carpet flr fnsh, r-30 ins, frm flr, 8" thkns, 1/2" gypsum board int fnsh	545	0.034	30.0	1.70	925	0.57	311





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Project Information

For: Raini Bowles
 3705 E Boise Ave, Boise, ID

Notes:

Design Information

Weather: Boise Air Terminal, ID, US

Winter Design Conditions

Outside db	11 °F
Inside db	70 °F
Design TD	60 °F

Summer Design Conditions

Outside db	95 °F
Inside db	75 °F
Design TD	20 °F
Daily range	H
Relative humidity	50 %
Moisture difference	-27 gr/lb

Heating Summary

Structure	35683 Btuh
Ducts	10284 Btuh
Central vent (123 cfm)	7266 Btuh
Outside air	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	53233 Btuh

Sensible Cooling Equipment Load Sizing

Structure	17437 Btuh
Ducts	8222 Btuh
Central vent (123 cfm)	2442 Btuh
Outside air	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	1.00
Equipment sensible load	28101 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	-1155 Btuh
Ducts	-350 Btuh
Central vent (123 cfm)	-2030 Btuh
Outside air	
Equipment latent load	0 Btuh

	Heating	Cooling
Area (ft²)	2359	2359
Volume (ft³)	20049	20049
Air changes/hour	0.41	0.21
Equiv. AVF (cfm)	137	70

Equipment Total Load (Sen+Lat)	28101 Btuh
Req. total capacity at 0.70 SHR	3.3 ton

Heating Equipment Summary

Make	Generic
Trade	
Model	AFUE 92
AHRI ref	
Efficiency	92 AFUE
Heating input	59783 Btuh
Heating output	55000 Btuh
Temperature rise	50 °F
Actual air flow	1110 cfm
Air flow factor	0.024 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER 14.0
Coil	
AHRI ref	
Efficiency	12.2 EER, 14 SEER
Sensible cooling	29400 Btuh
Latent cooling	12600 Btuh
Total cooling	42000 Btuh
Actual air flow	1400 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	1.00

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Right-J® Worksheet
Entire House
Atlas Appliance Service

Job: 3705 E Boise Ave
Date: Apr 01, 2025
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3606 S Happy Valley Rd, Nampa, ID 83686 Phone: 2084650091 Email: atlasappliance123@gmail.com License: HVC-C-4521

1	Room name					Entire House					Bed#3			
2	Exposed wall					224.0 ft					13.5 ft			
3	Room height					8.5 ft					8.5 ft			
4	Room dimensions					d					1.0 x 192.0 ft			
5	Room area					2358.8 ft²					192.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12F-0sw	0.065	n	3.87	0.99	557	414	1600	411	102	86	333	86
11	G	10B-v	0.320	n	19.04	8.60	35	0	666	301	0	0	0	0
	G	2 glazing, dr outr,	0.320	n	19.04	12.28	108	0	2056	1327	16	0	305	197
	W	12F-0sw	0.065	e	3.87	0.99	395	332	1285	330	0	0	0	0
	G	2 glazing, dr outr,	0.320	e	19.04	35.41	28	0	533	991	0	0	0	0
	G	2 glazing, dr outr,	0.320	e	19.04	24.78	35	0	666	867	0	0	0	0
	W	12F-0sw	0.065	s	3.87	0.99	557	487	1883	484	0	0	0	0
	G	2 glazing, dr outr,	0.320	s	19.04	20.36	70	0	1333	1425	0	0	0	0
	W	12F-0sw	0.065	w	3.87	0.99	395	371	1436	369	13	13	49	13
	G	2 glazing, dr outr,	0.320	w	19.04	35.41	24	0	457	850	0	0	0	0
	C	16B-50ad	0.020	-	1.19	1.00	2359	2359	2807	2359	192	192	228	192
	F	19A-0bscp	0.295	-	6.59	2.22	1814	1814	11959	4020	192	192	1266	426
F	19A-30bscp	0.034	-	1.70	0.57	545	545	925	311	0	0	0	0	

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1	Room name					Bed#2					Mech				
2	Exposed wall					12.5 ft					0 ft				
3	Room height					8.5 ft					8.5 ft				
4	Room dimensions					12.5 x 12.0 ft					5.5 x 3.0 ft				
5	Room area					150.0 ft²					16.5 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12F-0sw	0.065	n	3.87	0.99	106	90	349	90	0	0	0	0	
11	G	10B-v	0.320	n	19.04	8.60	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	n	19.04	12.28	16	0	305	197	0	0	0	0	
	W	12F-0sw	0.065	e	3.87	0.99	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	e	19.04	35.41	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	e	19.04	24.78	0	0	0	0	0	0	0	0	
	W	12F-0sw	0.065	s	3.87	0.99	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	s	19.04	20.36	0	0	0	0	0	0	0	0	
	W	12F-0sw	0.065	w	3.87	0.99	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	w	19.04	35.41	0	0	0	0	0	0	0	0	
	C	16B-50ad	0.020	-	1.19	1.00	150	150	178	150	17	17	20	17	
	F	19A-0bscp	0.295	-	6.59	2.22	150	150	989	332	17	17	109	37	
F	19A-30bscp	0.034	-	1.70	0.57	0	0	0	0	0	0	0	0		
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Right-J® Worksheet

Entire House

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1	Room name					Bonus Room 44.0 ft					Storage 15.5 ft				
2	Exposed wall					8.5 ft					8.5 ft				
3	Room height					1.0					11.5				
4	Room dimensions					644.8 ft					46.0 ft				
5	Room area					644.8 ft²					46.0 ft²				
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	12F-0sw	0.065	n	3.87	0.99	0	0	0	0	0	0	0	0	
11	G	10B-v	0.320	n	19.04	8.60	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.320	n	19.04	12.28	0	0	0	0	0	0	0	0	
	W	12F-0sw	0.065	e	3.87	0.99	170	119	460	118	0	0	0	0	
	G	2 glazing, dr outr,	0.320	e	19.04	35.41	16	0	305	566	0	0	0	0	
	G	2 glazing, dr outr,	0.320	e	19.04	24.78	35	0	666	867	0	0	0	0	
	W	12F-0sw	0.065	s	3.87	0.99	204	164	634	163	98	98	378	97	
	G	2 glazing, dr outr,	0.320	s	19.04	20.36	40	0	762	815	0	0	0	0	
	W	12F-0sw	0.065	w	3.87	0.99	0	0	0	0	34	34	131	34	
	G	2 glazing, dr outr,	0.320	w	19.04	35.41	0	0	0	0	0	0	0	0	
	C	16B-50ad	0.020	-	1.19	1.00	645	645	767	645	46	46	55	46	
	F	19A-0bscp	0.295	-	6.59	2.22	645	645	4251	1429	46	46	303	102	
F	19A-30bscp	0.034	-	1.70	0.57	0	0	0	0	0	0	0	0		

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1	Room name					Bed#5					Stairs2			
2	Exposed wall					22.5 ft					0 ft			
3	Room height					8.5 ft					8.5 ft			
4	Room dimensions					11.5 x 11.0 ft					12.5 x 7.0 ft			
5	Room area					126.5 ft²					87.5 ft²			
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12F-0sw	0.065	n	3.87	0.99	98	80	308	79	0	0	0	0
11	G	10B-v	0.320	n	19.04	8.60	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.320	n	19.04	12.28	18	0	343	221	0	0	0	0
	W	12F-0sw	0.065	e	3.87	0.99	94	94	362	93	0	0	0	0
	G	2 glazing, dr outr,	0.320	e	19.04	35.41	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.320	e	19.04	24.78	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	s	3.87	0.99	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.320	s	19.04	20.36	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	3.87	0.99	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.320	w	19.04	35.41	0	0	0	0	0	0	0	0
	C	16B-50ad	0.020	-	1.19	1.00	127	127	151	127	88	88	104	88
	F	19A-0bscp	0.295	-	6.59	2.22	127	127	834	280	88	88	577	194
F	19A-30bscp	0.034	-	1.70	0.57	0	0	0	0	0	0	0	0	
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1	Room name					Mbath2								
2	Exposed wall					9.0 ft								
3	Room height					8.5 ft					heat/cool			
4	Room dimensions					9.0 x 3.5 ft								
5	Room area					31.5 ft²								
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12F-0sw	0.065	n	3.87	0.99	0	0	0	0				
.	G	10B-v	0.320	n	19.04	8.60	0	0	0	0				
.	G	2 glazing, dr outr,	0.320	n	19.04	12.28	0	0	0	0				
11	W	12F-0sw	0.065	e	3.87	0.99	0	0	0	0				
	G	2 glazing, dr outr,	0.320	e	19.04	35.41	0	0	0	0				
	G	2 glazing, dr outr,	0.320	e	19.04	24.78	0	0	0	0				
	W	12F-0sw	0.065	s	3.87	0.99	77	68	261	67				
.	G	2 glazing, dr outr,	0.320	s	19.04	20.36	9	0	171	183				
W	G	12F-0sw	0.065	w	3.87	0.99	0	0	0	0				
.	G	2 glazing, dr outr,	0.320	w	19.04	35.41	0	0	0	0				
C		16B-50ad	0.020	-	1.19	1.00	32	32	37	32				
F		19A-0bscp	0.295	-	6.59	2.22	32	32	208	70				
F		19A-30bscp	0.034	-	1.70	0.57	0	0	0	0				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



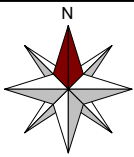
A MiTek® / Berkshire Hathaway Company

Right-Suite® Universal 2019 19.0.21 RSU65782

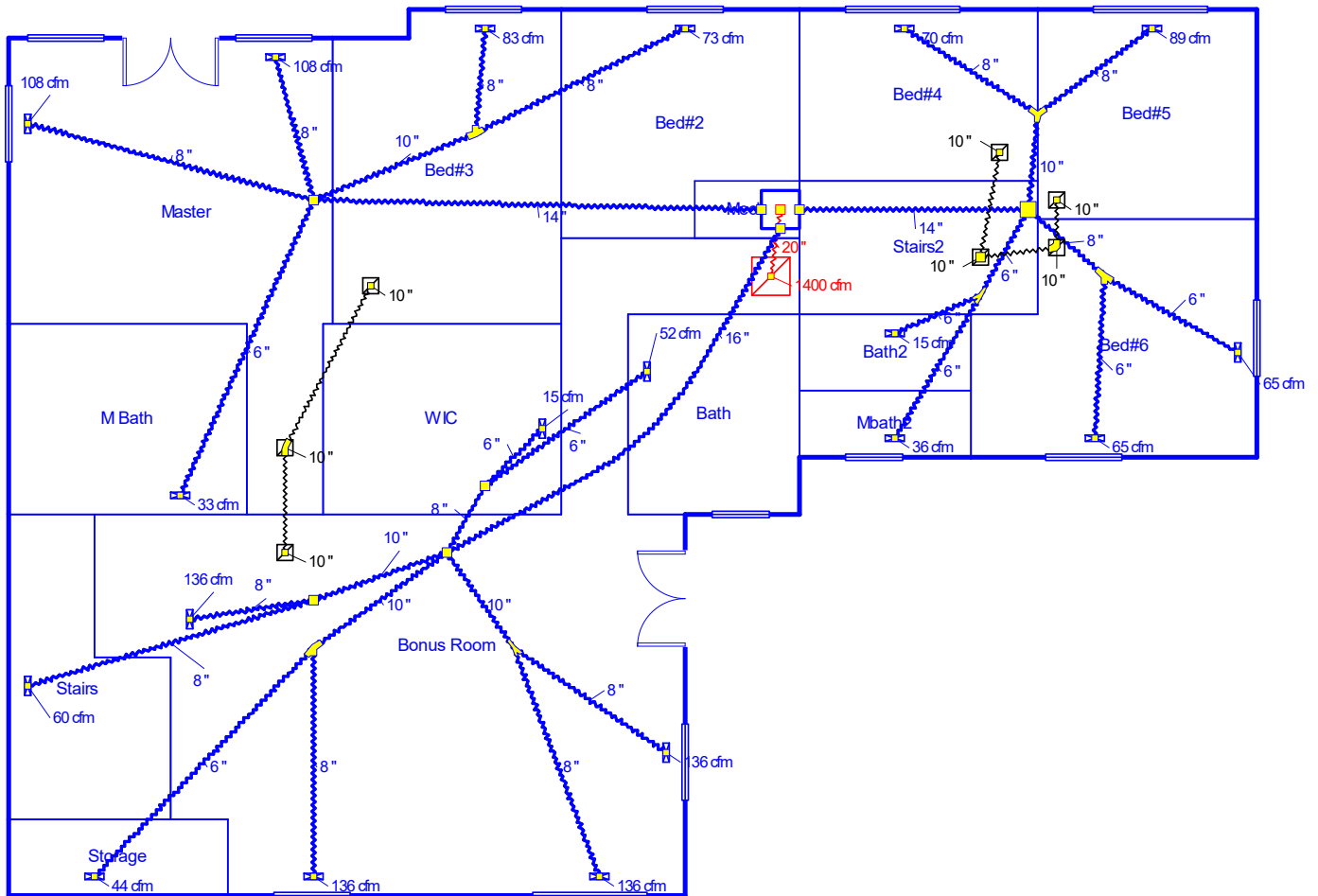
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Level 1



All supply registers are 12" X 4" w/ dampers
6" pipe from return to outside air for
mechanical ventilation

Job #: 3705 E Boise Ave
Performed by Cody Howard for:
Raini Bowles
3705 E Boise Ave
Boise, ID

Atlas Appliance Service

3606 S Happy Valley Rd
Nampa, ID 83686
Phone: 2084650091
atlasappliance123@gmail.com

Scale: 1 : 114

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Duct System Summary

Entire House

Atlas Appliance Service

Job: 3705 E Boise Ave
Date: Apr 01, 2025
By: Cody Howard

3606 S Happy Valley Rd, Nampa, ID 83686 Phone: 2084650091 Email: atlasappliance123@gmail.com License: HVC-C-4521

Project Information

For: Raini Bowles
3705 E Boise Ave, Boise, ID

	Heating	Cooling
External static pressure	0.60 in H2O	0.60 in H2O
Pressure losses	0.47 in H2O	0.47 in H2O
Available static pressure	0.13 in H2O	0.13 in H2O
Supply / return available pressure	0.110 / 0.020 in H2O	0.110 / 0.020 in H2O
Lowest friction rate	0.059 in/100ft	0.059 in/100ft
Actual air flow	1110 cfm	1400 cfm
Total effective length (TEL)	219 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath	c 948	46	52	0.063	6.0	0x0	VIFx	39.7	135.0	st8
Bath2	c 268	14	15	0.072	6.0	0x0	VIFx	22.1	130.0	st5
Bed#2	h 3027	73	69	0.063	8.0	0x0	VIFx	45.0	130.0	st11
Bed#3	h 3437	83	78	0.065	8.0	0x0	VIFx	38.2	130.0	st11
Bed#4	h 2894	70	66	0.071	8.0	0x0	VIFx	25.3	130.0	st6
Bed#5	h 3667	89	75	0.071	8.0	0x0	VIFx	24.5	130.0	st6
Bed#6	c 1197	58	65	0.071	6.0	0x0	VIFx	25.4	130.0	st4
Bed#6-A	c 1197	58	65	0.071	6.0	0x0	VIFx	25.8	130.0	st4
Bonus Room	c 2495	74	136	0.061	8.0	0x0	VIFx	45.9	135.0	st10
Bonus Room-A	c 2495	74	136	0.061	8.0	0x0	VIFx	44.2	135.0	st9
Bonus Room-B	c 2495	74	136	0.063	8.0	0x0	VIFx	41.1	135.0	st9
Bonus Room-C	c 2495	74	136	0.063	8.0	0x0	VIFx	39.3	135.0	st7
M Bath	h 1353	33	27	0.071	6.0	0x0	VIFx	40.5	115.0	st3
Master	c 1986	71	108	0.071	8.0	0x0	VIFx	39.0	115.0	st3
Master-A	c 1986	71	108	0.075	8.0	0x0	VIFx	31.3	115.0	st3
Mbath2	c 656	31	36	0.071	6.0	0x0	VIFx	25.9	130.0	st5
Stairs-A	h 2484	60	45	0.060	8.0	0x0	VIFx	48.4	135.0	st7
Storage	h 1838	44	29	0.059	6.0	0x0	VIFx	50.5	135.0	st10
WIC	c 283	11	15	0.065	6.0	0x0	VIFx	33.6	135.0	st8

Bold/italic values have been manually overridden

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st7	Peak AVF	134	181	0.060	333	10.0	0 x 0	VinIFlx	st2
st8	Peak AVF	58	67	0.063	192	8.0	0 x 0	VinIFlx	st2
st9	Peak AVF	149	272	0.061	499	10.0	0 x 0	VinIFlx	st2
st10	Peak AVF	119	166	0.059	304	10.0	0 x 0	VinIFlx	st2
st2	Peak AVF	459	686	0.059	492	16.0	0 x 0	VinIFlx	
st11	Peak AVF	156	147	0.063	286	10.0	0 x 0	VinIFlx	st3
st3	Peak AVF	331	391	0.063	366	14.0	0 x 0	VinIFlx	
st4	Peak AVF	116	131	0.071	374	8.0	0 x 0	VinIFlx	st1
st1	Peak AVF	320	323	0.071	302	14.0	0 x 0	VinIFlx	
st5	Peak AVF	45	50	0.071	257	6.0	0 x 0	VinIFlx	st1
st6	Peak AVF	158	142	0.071	291	10.0	0 x 0	VinIFlx	st1

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x 0	1110	1400	33.5	0.059	642	20.0	0 x 0		VIFx	

Bold/italic values have been manually overridden

