



Right-Suite® Universal 2019 Load Summary
AH 1

Job: Connect Church - Wilso...
Date: Mar 20, 2020
By: JLB

Project Information

For: Connect Church
771 S W Thomas Rd, Lake City, FL

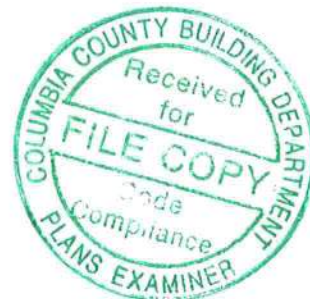
Zone: AH 1

COOLING LOAD

1. DESIGN CONDITIONS	at Jul 1700 LDT	Peak load at Jul 1700 LDT		
Inside: 72 °F	Outside: 94 °F	TD: 22 °F		
RH: 44 %	MoistDiff: 48.1 gr/lb	Mult: 1.0	Ins.wb	60 °F
			Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS			0	-
3. TRANSMISSION GAINS	Sensible		5480	-
Walls:	2620		-	-
Glass:	0		-	-
Doors:	200		-	-
Partitions:	0		-	-
Floors:	0		-	-
Ceilings:	2660		-	-
4. INTERNAL HEAT GAIN	Sensible	Latent	14872	4985
Occupants:	10095	4985	-	-
Lights:	4776	-	-	-
Motors:	0	-	-	-
Appliances:	0	0	-	-
5. INFILTRATION:	Outside air cfm:	172	4107	5598
6. SUBTOTAL: Space load	Sensible	Latent	24460	10583
Envelope	24460	10583	-	-
Less external	0	-	-	-
Redistribution	0	0	-	-
7. SUPPLY DUCT			0	-
8. SUBTOTAL: Space load + supply duct			24460	-
Actual cfm:	1883 at supply TD:	17	-	-
9. VENTILATION:	Make-up air cfm:	336	8034	10950
10. RETURN AIR LOAD:	Lighting + plenum (net)		0	-
11. RETURN DUCT			0	-
12. TOTAL LOADS ON EQUIPMENT			32494	21533

HEATING LOAD

13. DESIGN CONDITIONS		Mult: 1.0		
Inside: 70 °F	Outside: 29 °F	TD: 41 °F		
14. TRANSMISSION LOSSES			9815	
Walls:	2967		-	
Glass:	0		-	
Doors:	258		-	
Partitions:	0		-	
Floors:	4838		-	
Ceilings:	1752		-	
15. INFILTRATION:	Outside air cfm:	347	15612	
16. SUBTOTAL: Space load			25427	
Envelope	25427		-	
Less external	0		-	
Less transfer	0		-	
Redistribution	0		-	
17. SUPPLY DUCT:			0	
18. VENTILATION:	Make-up air cfm:	336	15111	
19. HUMIDIFICATION			13337	
Piping			0	
20. RETURN DUCT			0	
21. TOTAL HEATING LOAD ON EQUIPMENT			53875	





Right-Suite® Universal 2019 Load Summary

AH 2

Job: Connect Church - Wilso...
Date: Mar 20, 2020
By: JLB

Project Information

For: Connect Church
771 S W Thomas Rd, Lake City, FL

Zone: AH 2

COOLING LOAD

1. DESIGN CONDITIONS	at Jul 1700 LDT	Peak load at Jul 1800 LDT		
Inside: 72 °F	Outside: 94 °F	TD: 22 °F		
RH: 44 %	MoistDiff: 48.1 gr/lb	Mult: 1.0	Ins.wb	60 °F
			Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS			0	-
3. TRANSMISSION GAINS	Sensible		4921	-
Walls:	2195		-	-
Glass:	0		-	-
Doors:	65		-	-
Partitions:	0		-	-
Floors:	0		-	-
Ceilings:	2660		-	-
4. INTERNAL HEAT GAIN	Sensible	Latent	17375	6222
Occupants:	12599	6222	-	-
Lights:	4776	-	-	-
Motors:	0	-	-	-
Appliances:	0	0	-	-
5. INFILTRATION:	Outside air cfm:	68	1620	2209
6. SUBTOTAL: Space load	Sensible	Latent	23917	8430
Envelope	23917	8430	-	-
Less external	0	-	-	-
Redistribution	0	0	-	-
7. SUPPLY DUCT			0	-
8. SUBTOTAL: Space load + supply duct			23917	-
Actual cfm:	1883 at supply TD:	17	-	-
9. VENTILATION:	Make-up air cfm:	390	9322	12705
10. RETURN AIR LOAD:	Lighting + plenum (net)		0	-
11. RETURN DUCT			0	-
12. TOTAL LOADS ON EQUIPMENT			33239	21135

HEATING LOAD

13. DESIGN CONDITIONS		Mult: 1.0		
Inside: 70 °F	Outside: 29 °F	TD: 41 °F		
14. TRANSMISSION LOSSES			9785	
Walls:	3107		-	
Glass:	0		-	
Doors:	88		-	
Partitions:	0		-	
Floors:	4838		-	
Ceilings:	1752		-	
15. INFILTRATION:	Outside air cfm:	182	8179	
16. SUBTOTAL: Space load			17964	
Envelope	17964		-	
Less external	0		-	
Less transfer	0		-	
Redistribution	0		-	
17. SUPPLY DUCT:			0	
18. VENTILATION:	Make-up air cfm:	390	17532	
19. HUMIDIFICATION			11162	
Piping			0	
20. RETURN DUCT			0	
21. TOTAL HEATING LOAD ON EQUIPMENT			46658	



Right-Suite® Universal 2019 Load Summary
Entire House

Job: Connect Church - Wilso...
Date: Mar 20, 2020
By: JLB

Project Information

For: Connect Church
771 S W Thomas Rd, Lake City, FL

Zone: Entire House

COOLING LOAD

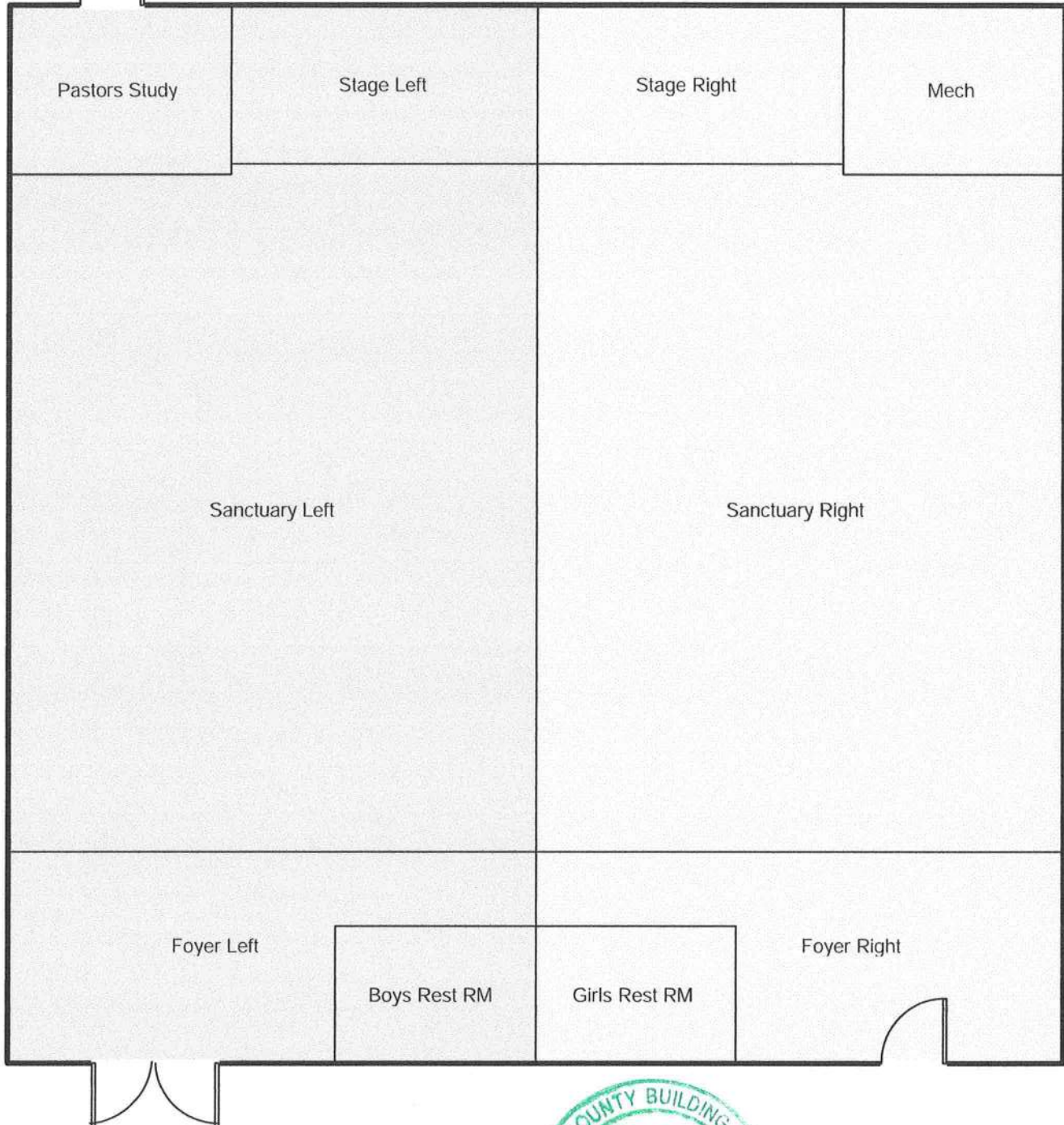
1. DESIGN CONDITIONS	at Jul 1700 LDT	Peak load at Jul 1700 LDT		
Inside: 72 °F	Outside: 94 °F	TD: 22 °F		
RH: 44 %	MoistDiff: 48.1 gr/lb	Mult: 1.0	Ins.wb	60 °F
			Sensible	Latent
2. SOLAR RADIATION THROUGH GLASS			0	-
3. TRANSMISSION GAINS	Sensible		10401	-
Walls:	4815		-	-
Glass:	0		-	-
Doors:	265		-	-
Partitions:	0		-	-
Floors:	0		-	-
Ceilings:	5321		-	-
4. INTERNAL HEAT GAIN	Sensible	Latent	32247	11207
Occupants:	22694	11207	-	-
Lights:	9553	-	-	-
Motors:	0	-	-	-
Appliances:	0	0	-	-
5. INFILTRATION:	Outside air cfm:	239	5728	7806
6. SUBTOTAL: Space load	Sensible	Latent	48377	19013
Envelope	48377	19013	-	-
Less external	0	-	-	-
Redistribution	0	0	-	-
7. SUPPLY DUCT			0	-
8. SUBTOTAL: Space load + supply duct			48377	-
Actual cfm:	3766	at supply TD: 17	-	-
9. VENTILATION:	Make-up air cfm:	726	17356	23655
10. RETURN AIR LOAD:	Lighting + plenum (net)		0	-
11. RETURN DUCT			0	-
12. TOTAL LOADS ON EQUIPMENT			65733	42669

HEATING LOAD

13. DESIGN CONDITIONS		Mult: 1.0		
Inside: 70 °F	Outside: 29 °F	TD: 41 °F		
14. TRANSMISSION LOSSES			19600	
Walls:	6074		-	
Glass:	0		-	
Doors:	346		-	
Partitions:	0		-	
Floors:	9676		-	
Ceilings:	3503		-	
15. INFILTRATION:	Outside air cfm:	529	23791	
16. SUBTOTAL: Space load			43391	
Envelope	43391		-	
Less external	0		-	
Less transfer	0		-	
Redistribution	0		-	
17. SUPPLY DUCT:			0	
18. VENTILATION:	Make-up air cfm:	726	32643	
19. HUMIDIFICATION			24499	
Piping			0	
20. RETURN DUCT			0	
21. TOTAL HEATING LOAD ON EQUIPMENT			100533	



1st Floor



Job #: Connect Church - Wilson - J-1063
Performed by JLB for:

Connect Church
771 S W Thomas Rd
Lake City, FL

Scale: 1 : 83

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