



Load Short Form

Entire House

SHATTO HEATING & AIR, INC.

Job: JOHNS RESIDENCE
Date: Dec 22, 2021
By: KIM SHATTO

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Project Information

For: WILLIAM SCOTT CONSTRUCTION
780 SW RIDGE ST, LAKE CITY, FL 32024
Phone: 386-365-1222

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	37	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	45		

HEATING EQUIPMENT

Make Trane
Trade TRANE
Model 4TWR4048G1
AHRI ref
Efficiency 8.5 HSPF
Heating input
Heating output 46500 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1550 cfm
Air flow factor 0.059 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 17 °F

Backup:
Input = 7 kW, Output = 24812 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Trane
Trade TRANE
Cond 4TWR4048G1
Coil TEM4A0C48S41
AHRI ref
Efficiency 11.5 EER, 14 SEER
Sensible cooling 32550 Btuh
Latent cooling 13950 Btuh
Total cooling 46500 Btuh
Actual air flow 1550 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.81

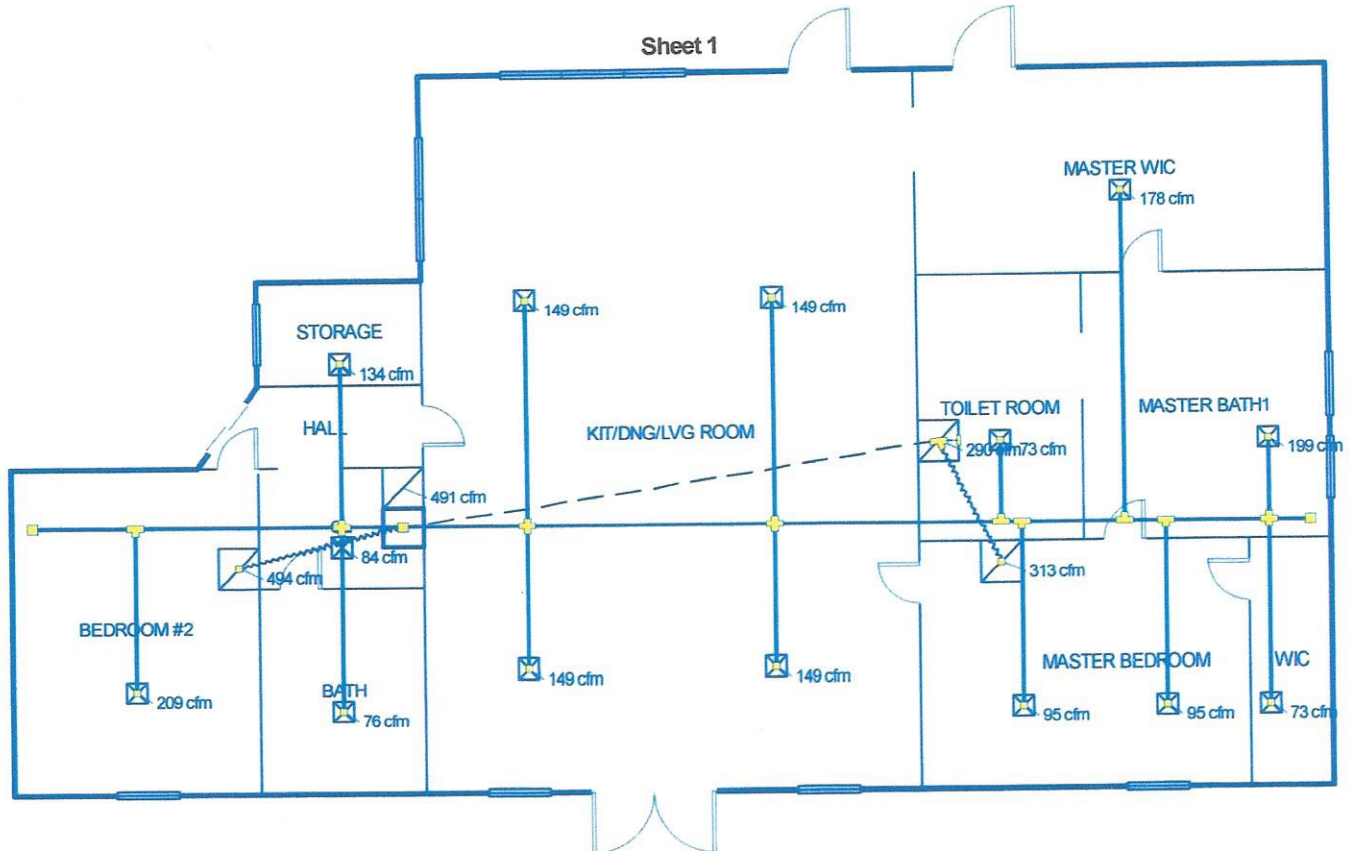
ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BEDROOM #2	192	3557	3229	209	140
BATH	80	778	1761	46	76
CL	48	425	1949	25	84
KIT/DNG/LVG ROOM	840	10090	12569	594	544
STORAGE	40	1651	3095	97	134
MASTER WIC	200	3021	2757	178	119
MASTER BEDROOM	240	3235	3106	191	134
TOILET ROOM	104	290	1679	17	73
MASTER BATH1	156	2031	4598	120	199
HALL	38	0	0	0	0
WIC	48	1243	1083	73	47

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

Entire House	1986	26321	35827	1550	1550
Other equip loads		0	0		
Equip. @ 0.97 RSM			34752		
Latent cooling			8497		
TOTALS	1986	26321	43249	1550	1550

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Sheet 1



Job #: JOHNS RESIDENCE
Performed by KIM SHATTO for:
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