



Manual S Compliance Report

Entire House

Spann's Heating and Air INC.

Job: MATHERS- TEGGART
Date: May 11, 2026
By:

16051 NW 160th ST, Trenton, FL 32693 Phone: 352-463-6440 Email: office@spannsac.com

Project Information

For: MATHERS- TEGGART

Cooling Equipment

Design Conditions

Outdoor design DB:	92.2°F	Sensible gain:	24429	Btuh	Entering coil DB:	77.2°F
Outdoor design WB:	75.8°F	Latent gain:	6706	Btuh	Entering coil WB:	63.5°F
Indoor design DB:	75.0°F	Total gain:	31134	Btuh		
Indoor RH:	50%	Estimated airflow:	1213	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Comfortmaker	Model:	N5H5S36*K*AAA*+FHMA5*48L*C*	
Actual airflow:	1213	cfm		
Sensible capacity:	28831	Btuh	118% of load	
Latent capacity:	6126	Btuh	91% of load	
Total capacity:	34957	Btuh	112% of load	SHR: 82%

Heating Equipment

Design Conditions

Outdoor design DB:	33.0°F	Heat loss:	28880	Btuh	Entering coil DB:	68.9°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Comfortmaker	Model:	N5H5S36*K*AAA*+FHMA5*48L*C*	
Actual airflow:	1213	cfm		
Output capacity:	35200	Btuh	122% of load	Capacity balance: 29 °F
Supplemental heat required:	0	Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:	n/a	Model:	n/a+n/a	
Actual airflow:	1213	cfm		
Output capacity:	7.5	kW	89% of load	Temp. rise: 29 °F

Meets all requirements of ACCA Manual S.





Load Short Form

Entire House

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Project Information

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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Semi-loose
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	44		

HEATING EQUIPMENT

Make Comfortmaker
Trade PERFORMANCE SEER2 HP
Model N5H5S36*K*AAA*
AHRI ref
Efficiency 7.8 HSPF2
Heating input
Heating output 35200 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 1213 cfm
Air flow factor 0.042 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 29 °F

Backup: n/a n/a

Input = 8 kW, Output = 25694 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Comfortmaker
Trade PERFORMANCE SEER2 HP
Cond N5H5S36*K*AAA*
Coil FHMA5*48L*C*
AHRI ref
Efficiency 13.0 EER2, 14.3 SEER2
Sensible cooling 25480 Btuh
Latent cooling 10920 Btuh
Total cooling 36400 Btuh
Actual air flow 1213 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.78

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BEDROOM 3	161	3711	2017	156	100
BATH 2	58	894	1409	38	70
BEDROOM 2	145	1857	2098	78	104
BEDROOM 4	155	3638	2008	153	100
KITCHEN	298	3941	5872	166	292
GREAT ROOM	444	4407	4803	185	239
LAUNDRY	116	3420	1321	144	66
CLOSET	87	895	383	38	19
MASTER BATH	130	1444	1566	61	78
MASTER BEDROOM	246	4672	2951	196	147

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Entire House	1840	28880	24429	1213	1213
Other equip loads		0	0		
Equip. @ 0.97 RSM			23745		
Latent cooling			6706		
TOTALS	1840	28880	30450	1213	1213

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Project Summary
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Project Information

For: MATHERS- TEGGART

Notes:

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Ventilation Method MJ8

Heating Summary

Structure	22044 Btuh
Ducts (R-6.0)	6836 Btuh
Central vent (0 cfm)	0 Btuh

Humidification	0 Btuh
Piping	0 Btuh
Equipment load	28880 Btuh

Infiltration

Method	Simplified
Construction quality	Semi-loose
Fireplaces	0

	Heating	Cooling
Area (ft ²)	1840	1840
Volume (ft ³)	18784	18784
Air changes/hour	0.59	0.31
Equiv. AVF (cfm)	185	97

Heating Equipment Summary

Make	Comfortmaker
Trade	PERFORMANCE SEER2 HP
Model	N5H5S36*K*AAA*
AHRI ref	

Efficiency	7.8 HSPF2
Heating input	
Heating output	35200 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1213 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point = 29 °F	

Backup: n/a n/a
Input = 8 kW, Output = 25694 Btuh, 100 AFUE

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	44 gr/lb

Sensible Cooling Equipment Load Sizing

Structure	15984 Btuh
Ducts (R-6.0)	8445 Btuh
Central vent (0 cfm)	0 Btuh

Blower 0 Btuh

Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	23745 Btuh

Latent Cooling Equipment Load Sizing

Structure	5078 Btuh
Ducts	1628 Btuh
Central vent (0 cfm)	0 Btuh

Equipment latent load 6706 Btuh

Equipment Total Load (Sen+Lat)	30450 Btuh
Req. total capacity at 0.70 SHR	2.8 ton

Cooling Equipment Summary

Make	Comfortmaker
Trade	PERFORMANCE SEER2 HP
Cond	N5H5S36*K*AAA*
Coil	FHMA5*48L*C*

AHRI ref	
Efficiency	13.0 EER2,14.3 SEER2
Sensible cooling	25480 Btuh
Latent cooling	10920 Btuh
Total cooling	36400 Btuh
Actual air flow	1213 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.78

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Right-J® Worksheet
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Spann's Heating and Air INC.

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Date: May 11, 2026
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16051 NW 160th ST, Trenton, FL 32693 Phone: 352-463-6440 Email: office@spannsac.com

1	Room name					Entire House					BEDROOM 3				
2	Exposed wall					172.0 ft					25.5 ft				
3	Room height					10.2 ft					9.0 ft				
4	Room dimensions					1840.0 ft²					14.0 x 11.5 ft				
5	Room area					1840.0 ft²					161.0 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	12E-0sw	0.068	n	2.52	1.40	466	398	1000	557	126	111	279	155	
11	G	1D-c2ov	0.300	n	11.10	9.32	12	0	133	112	0	0	0	0	
	G	1D-c2ov	0.300	n	11.10	9.32	15	0	167	140	15	0	167	140	
	D	11D0	0.390	n	14.43	11.58	42	42	606	486	0	0	0	0	
	W	12E-0sw	0.068	e	2.52	1.40	360	324	815	454	0	0	0	0	
	G	1D-c2ov	0.300	e	11.10	24.35	6	0	67	146	0	0	0	0	
	G	1D-c2ov	0.300	e	11.10	24.35	9	0	100	219	0	0	0	0	
	D	11D0	0.390	e	14.43	11.58	21	21	303	243	0	0	0	0	
	W	12E-0sw	0.068	s	2.52	1.40	468	366	921	513	0	0	0	0	
	G	1D-c2ov	0.300	s	11.10	9.48	60	53	666	569	0	0	0	0	
	D	11D0	0.390	s	14.43	11.58	42	42	606	486	0	0	0	0	
	W	12E-0sw	0.068	w	2.52	1.40	360	336	845	471	104	104	260	145	
	G	1D-c2ov	0.300	w	11.10	24.35	9	0	100	219	0	0	0	0	
	G	1D-c2ov	0.300	w	11.10	24.35	15	0	167	365	0	0	0	0	
	C	16B-38md	0.026	-	0.96	1.38	1840	1840	1770	2545	161	161	155	223	
	F	22A-tpl	0.989	-	36.59	0.00	1840	172	6294	0	161	26	933	0	
											</				

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1	Room name					BATH 2				BEDROOM 2				
2	Exposed wall					5.5 ft				11.5 ft				
3	Room height					9.0 ft				9.0 ft				
4	Room dimensions					10.5 x 5.5 ft				1.0 x 144.8 ft				
5	Room area					57.8 ft²				144.8 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	12E-0sw	0.068	n	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0
.	D	11D0	0.390	n	14.43	11.58	0	0	0	0	0	0	0	0
11	W	12E-0sw	0.068	e	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0
.	D	11D0	0.390	e	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	s	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	s	11.10	9.48	0	0	0	0	0	0	0	0
.	D	11D0	0.390	s	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	w	2.52	1.40	50	40	102	57	104	88	223	124
.	G	1D-c2ov	0.300	w	11.10	24.35	9	0	100	219	0	0	0	0
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	15	0	167	365
C		16B-38md	0.026	-	0.96	1.38	58	58	56	80	145	145	139	200
F		22A-tpl	0.989	-	36.59	0.00	58	6	201	0	145	12	421	0
								</						

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1	Room name					BEDROOM 4				KITCHEN				
2	Exposed wall					25.0 ft				17.5 ft				
3	Room height					9.0 ft				12.0 ft				
4	Room dimensions					13.5 x 11.5 ft				17.5 x 17.0 ft				
5	Room area					155.2 ft²				297.5 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	12E-0sw	0.068	n	2.52	1.40	0	0	0	0	210	156	392	219
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	12	0	133	112
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0
.	D	11D0	0.390	n	14.43	11.58	0	0	0	0	42	42	606	486
11	W	12E-0sw	0.068	e	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0
.	D	11D0	0.390	e	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	s	2.52	1.40	122	106	268	149	0	0	0	0
.	G	1D-c2ov	0.300	s	11.10	9.48	15	13	167	142	0	0	0	0
.	D	11D0	0.390	s	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	w	2.52	1.40	104	104	260	145	0	0	0	0
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0
C		16B-38md	0.026	-	0.96	1.38	155	155	149	215	298	298	286	412
F		22A-tpl	0.989	-	36.59	0.00	155	25	915	0	298	18	640	0

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1	Room name					GREAT ROOM					LAUNDRY				
2	Exposed wall					18.0 ft					22.5 ft				
3	Room height					12.0 ft					9.0 ft				
4	Room dimensions					1.0 x 443.8 ft					14.5 x 8.0 ft				
5	Room area					443.8 ft²					116.0 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	12E-0sw	0.068	n	2.52	1.40	0	0	0	0	130	130	328	183	
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0	
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0	
.	D	11D0	0.390	n	14.43	11.58	0	0	0	0	0	0	0	0	
11	W	12E-0sw	0.068	e	2.52	1.40	0	0	0	0	72	51	128	71	
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0	
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0	
.	D	11D0	0.390	e	14.43	11.58	0	0	0	0	21	21	303	243	
.	W	12E-0sw	0.068	s	2.52	1.40	216	144	362	202	0	0	0	0	
.	G	1D-c2ov	0.300	s	11.10	9.48	30	26	333	284	0	0	0	0	
.	D	11D0	0.390	s	14.43	11.58	42	42	606	486	0	0	0	0	
.	W	12E-0sw	0.068	w	2.52	1.40	0	0	0	0	0	0	0	0	
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0	
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0	
C		16B-38md	0.026	-	0.96	1.38	444	444	427	614	116	116	112	160	
F		22A-tpl	0.989	-	36.59	0.00	444	18	659	0	116	22	823	0	
		</													

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1	Room name					CLOSET				MASTER BATH				
2	Exposed wall					6.0 ft				9.0 ft				
3	Room height					9.0 ft				9.0 ft				
4	Room dimensions					14.5 x 6.0 ft				14.5 x 9.0 ft				
5	Room area					87.0 ft²				130.5 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	12E-0sw	0.068	n	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0	0	0	0	0
.	D	11D0	0.390	n	14.43	11.58	0	0	0	0	0	0	0	0
11	W	12E-0sw	0.068	e	2.52	1.40	54	54	136	76	81	72	181	101
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0	9	0	100	219
.	D	11D0	0.390	e	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	s	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	s	11.10	9.48	0	0	0	0	0	0	0	0
.	D	11D0	0.390	s	14.43	11.58	0	0	0	0	0	0	0	0
.	W	12E-0sw	0.068	w	2.52	1.40	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0
.	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0	0	0	0	0
C		16B-38md	0.026	-	0.96	1.38	87	87	84	120	130	130	126	181
F		22A-tpl	0.989	-	36.59	0.00	87	6	220	0	130	9	329	0

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1	Room name					MASTER BEDROOM								
2	Exposed wall					31.5 ft								
3	Room height					9.0 ft					heat/cool			
4	Room dimensions					14.5 x 17.0 ft								
5	Room area					246.5 ft²								
	Ty	Construction number	U-value (Bt uh/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	12E-0sw	0.068	n	2.52	1.40	0	0	0	0				
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0				
.	G	1D-c2ov	0.300	n	11.10	9.32	0	0	0	0				
.	D	11D0	0.390	n	14.43	11.58	0	0	0	0				
11	W	12E-0sw	0.068	e	2.52	1.40	153	147	370	206				
	G	1D-c2ov	0.300	e	11.10	24.35	6	0	67	146				
	G	1D-c2ov	0.300	e	11.10	24.35	0	0	0	0				
	D	11D0	0.390	e	14.43	11.58	0	0	0	0				
	W	12E-0sw	0.068	s	2.52	1.40	130	116	291	162				
	G	1D-c2ov	0.300	s	11.10	9.48	15	13	167	142				
	D	11D0	0.390	s	14.43	11.58	0	0	0	0				
	W	12E-0sw	0.068	w	2.52	1.40	0	0	0	0				
	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0				
	G	1D-c2ov	0.300	w	11.10	24.35	0	0	0	0				
C		16B-38md	0.026	-	0.96	1.38	246	246	237	341				
F		22A-tpl	0.989	-	36.59	0.00	246	32	1153	0				

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



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Duct System Summary

Entire House

Spann's Heating and Air INC.

Job: MATHERS- TEGGART
Date: May 11, 2026
By:

16051 NW 160th ST, Trenton, FL 32693 Phone: 352-463-6440 Email: office@spannsac.com

Project Information

For: MATHERS- TEGGART

	Heating	Cooling
External static pressure	0 in H ₂ O	0 in H ₂ O
Pressure losses	0 in H ₂ O	0 in H ₂ O
Available static pressure	0 in H ₂ O	0 in H ₂ O
Supply / return available pressure	0.000 / 0.000 in H ₂ O	0.000 / 0.000 in H ₂ O
Lowest friction rate	0 in/100ft	0 in/100ft
Actual air flow	1213 cfm	1213 cfm
Total effective length (TEL)		236 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 2	c 1409	38	70	0	5.0	0x0	VIFx	30.5	205.0	st1
BEDROOM 2	c 2098	78	104	0	7.0	0x0	VIFx	37.0	190.0	st1
BEDROOM 3	h 2017	156	100	0	7.0	0x0	VIFx	22.2	205.0	st1
BEDROOM 4	h 2008	153	100	0	7.0	0x0	VIFx	44.7	105.0	st1
CLOSET	h 383	38	19	0	5.0	0x0	VIFx	13.0	205.0	st1
GREAT ROOM	c 4803	185	239	0	7.0	0x0	VIFx	22.5	170.0	st1
KITCHEN	c 5872	166	292	0	7.0	0x0	VIFx	10.5	205.0	st1
LAUNDRY	h 1321	144	66	0	6.0	0x0	VIFx	7.0	205.0	st1
MASTER BATH	c 1566	61	78	0	6.0	0x0	VIFx	22.0	195.0	st1
MASTER BEDROOM	h 2951	196	147	0	7.0	0x0	VIFx	24.5	180.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	1213	1213	0	0	0	0 x 0	RectFbg	

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
rb1	0x0	1213	1213	0	0	0	0	0x 0		ShMt	

Bold/italic values have been manually overridden

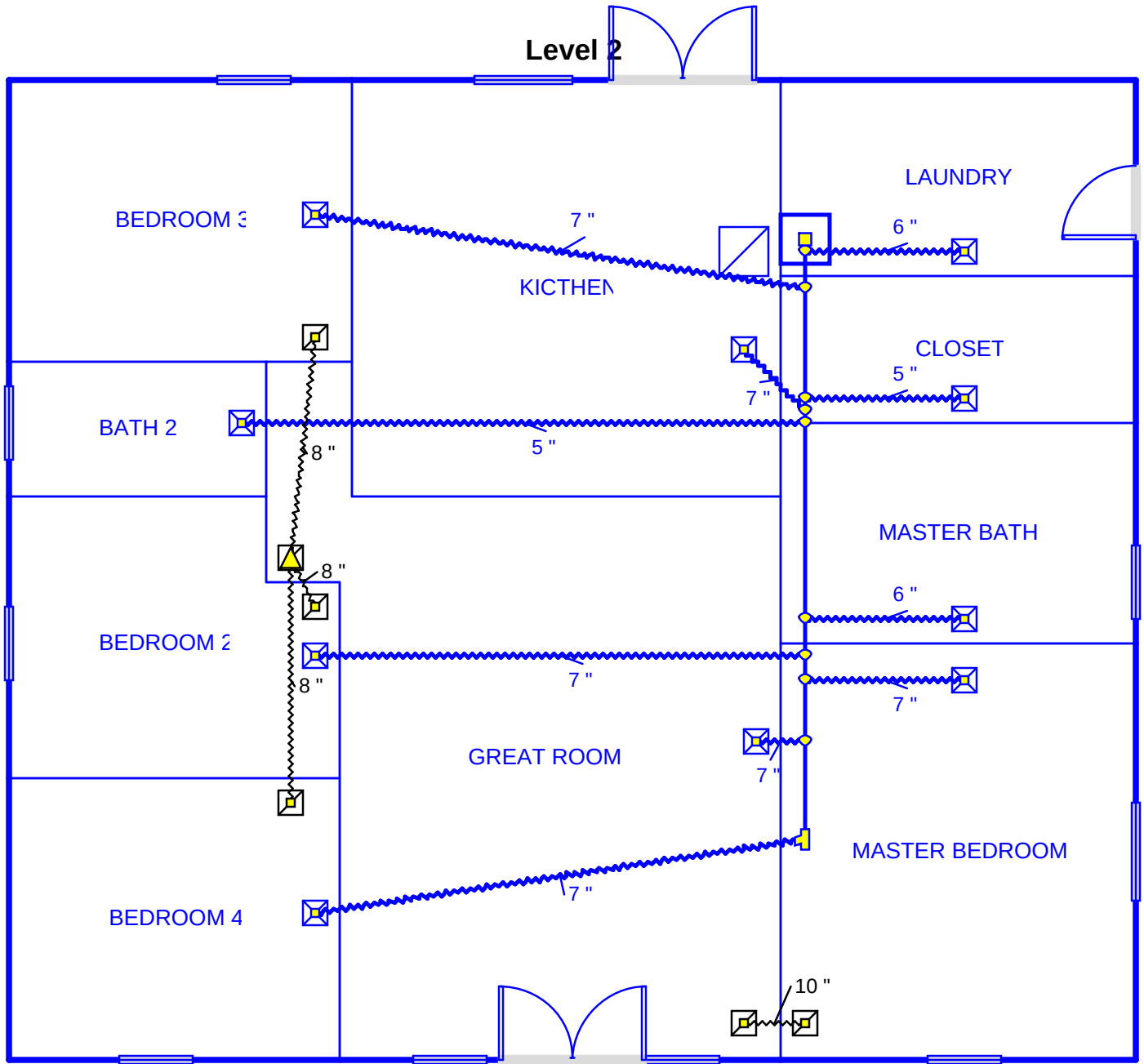


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Job #: MATHERS- TEGGART
Performed for:
MATHERS- TEGGART

Spann's Heating and Air INC.

16051 NW 160th ST
Trenton, FL 32693
Phone: 352-463-6440
office@spannsac.com

Scale: 1 : 77

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Level 1

Job #: MATHERS- TEGGART
Performed for:
MATHERS- TEGGART

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