



Load Short Form
Entire House
Spann's Heating and Air INC.

Job: Rodney Wade- Speicher
Date: Jun 15, 2021
By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

Project Information

For: Rodney Wade- Speicher

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	65	85		
Moisture difference (gr/lb)	49	0		

HEATING EQUIPMENT

Make Comfortmaker
Trade 14 SEER N SERIES R410A HP
Model N4H436GKG21
AHRI ref
Efficiency 8.2 HSPF
Heating input
Heating output 33800 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 1100 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.70 in H2O
Space thermostat
Capacity balance point = 27 °F

Backup: n/a n/a

Input = 7 kW, Output = 24741 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Comfortmaker
Trade 14 SEER N SERIES R410A HP
Cond N4H436GKG21
Coil FEM4X3600BL
AHRI ref
Efficiency 11.5 EER, 14 SEER
Sensible cooling 23100 Btuh
Latent cooling 9900 Btuh
Total cooling 33000 Btuh
Actual air flow 1100 cfm
Air flow factor 0.047 cfm/Btuh
Static pressure 0.70 in H2O
Load sensible heat ratio 0.86

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bath	94	2774	1789	118	85
Master Bedroom	247	2778	2632	118	124
Closet	88	1424	597	61	28
Laundry	80	99	889	4	42
Kitchen	336	4671	5295	199	250
Great Room	404	4467	4747	190	224
Bedroom 2	202	4097	2981	174	141
Bath	54	1004	1195	43	56
Bedroom 3	195	4567	3154	194	149

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

Entire House	d	1699	25881	23279	1100	1100
Other equip loads			0	0		
Equip. @ 0.97 RSM				22557		
Latent cooling				3847		
TOTALS		1699	25881	26404	1100	1100

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



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Project Summary

Entire House

Spann's Heating and Air INC.

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Project Information

For: Rodney Wade- Speicher

Notes:

Design Information

Weather: Gainesville Rgnl, FL, US

Winter Design Conditions

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

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	85 %
Moisture difference	0 gr/lb

Heating Summary

Structure	19914 Btuh
Ducts	5966 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	25881 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	1699	1699
Volume (ft ³)	17513	17513
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	111	58

Heating Equipment Summary

Make	Comfortmaker
Trade	14 SEER N SERIES R410A HP
Model	N4H436GKG21
AHRI ref	
Efficiency	8.2 HSPF
Heating input	
Heating output	33800 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1100 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.70 in H2O
Space thermostat	
Capacity balance point = 27 °F	
Backup: n/a n/a	
Input = 7 kW, Output = 24741 Btuh, 100 AFUE	

Sensible Cooling Equipment Load Sizing

Structure	15792 Btuh
Ducts	7486 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	22557 Btuh

Latent Cooling Equipment Load Sizing

Structure	2000 Btuh
Ducts	1847 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	3847 Btuh

Equipment Total Load (Sen+Lat)	26404 Btuh
Req. total capacity at 0.70 SHR	2.7 ton

Cooling Equipment Summary

Make	Comfortmaker
Trade	14 SEER N SERIES R410A HP
Cond	N4H436GKG21
Coil	FEM4X3600BL
AHRI ref	
Efficiency	11.5 EER, 14 SEER
Sensible cooling	23100 Btuh
Latent cooling	9900 Btuh
Total cooling	33000 Btuh
Actual air flow	1100 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.70 in H2O
Load sensible heat ratio	0.86

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



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...ments\Wrightsoft HVAC\Rodney Wade- Speicher.rup Calc = MJ8 Front Door faces: N

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Right-J® Worksheet

Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Speicher

Date: Jun 15, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

1	Room name					Entire House					Master Bath				
2	Exposed wall					158.0 ft					21.0 ft				
3	Room height					10.3 ft					9.0 ft				
4	Room dimensions					d					6.5 x 14.5 ft				
5	Room area					1699.3 ft²					94.3 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	12C-0sw	0.091	n	3.33	2.22	581	464	1544	1027	59	59	195	130	
11	G	1D-c2ov	0.400	n	14.64	10.92	45	0	659	491	0	0	0	0	
	G	1D-c2ov	0.400	n	14.64	10.92	30	0	439	328	0	0	0	0	
	D	11J0	0.600	n	21.96	17.61	42	42	922	740	0	0	0	0	
	W	12C-0sw	0.091	e	3.33	2.22	329	314	1044	695	0	0	0	0	
	G	1D-c2ov	0.400	e	14.64	25.95	15	0	220	389	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	369	288	959	638	0	0	0	0	
	G	1D-c2ov	0.400	s	14.64	11.08	60	53	878	665	0	0	0	0	
	D	11J0	0.600	s	21.96	17.61	21	21	461	370	0	0	0	0	
	W	12C-0sw	0.091	w	3.33	2.22	270	260	866	576	131	121	401	267	
	G	1D-c2ov	0.400	w	14.64	25.95	10	0	146	260	10	0	146	260	
	C	16B-38md	0.026	-	0.95	1.37	1699	1699	1617	2335	94	94	90	130	
F	22A-tpl	0.989	-	36.20	0.00	1699	158	5719	0	94	21	760	0		
6	c) AED excursion									0				96	
	Envelope loss/gain								15475	8513			1592	882	
12	a) Infiltration								4439	1079			542	132	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230			10			2300	0			0	
			Appliances/other							3900				200	
	Subtotal (lines 6 to 13)								19914	15792			2134	1214	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								19914	15792			2134	1214	
15	Duct loads							30%	47%	5966	7486	30%	47%	639	575
	Total room load								25881	23279			2774	1789	
	Air required (cfm)								1100	1100			118	85	

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1	Room name					Master Bedroom					Closet				
2	Exposed wall					17.0 ft					11.0 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					17.0 x 14.5 ft					8.0 x 11.0 ft				
5	Room area					246.5 ft²					88.0 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	12C-0sw	0.091	n	3.33	2.22	153	123	410	273	0	0	0	0	
11	G	1D-c2ov	0.400	n	14.64	10.92	30	0	439	328	0	0	0	0	
	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	0	0	0	0	
	D	11J0	0.600	n	21.96	17.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	e	14.64	25.95	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	s	14.64	11.08	0	0	0	0	0	0	0	0	
	D	11J0	0.600	s	21.96	17.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.33	2.22	0	0	0	0	99	99	330	219	
	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0	
	C	16B-38md	0.026	-	0.95	1.37	247	247	235	339	88	88	84	121	
F	22A-tpl	0.989	-	36.20	0.00	247	17	615	0	88	11	398	0		
6	c) AED excursion									-20				-5	
	Envelope loss/gain								1699	919			812	336	
12	a) Infiltration								439	107			284	69	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230			2			460	0			0	
			Appliances/other							300				0	
	Subtotal (lines 6 to 13)								2138	1785			1096	405	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								2138	1785			1096	405	
15	Duct loads							30%	47%	640	846	30%	47%	328	192
	Total room load								2778	2632			1424	597	
	Air required (cfm)								118	124			61	28	

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1	Room name					Laundry					Kitchen				
2	Exposed wall					0 ft					21.0 ft				
3	Room height					9.0 ft					12.0 ft				
4	Room dimensions					10.0 x 8.0 ft					21.0 x 16.0 ft				
5	Room area					80.0 ft²					336.0 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	12C-0sw	0.091	n	3.33	2.22	0	0	0	0	252	195	649	432	
11	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	15	0	220	164	
	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	0	0	0	0	
	D	11J0	0.600	n	21.96	17.61	0	0	0	0	42	42	922	740	
	W	12C-0sw	0.091	e	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	e	14.64	25.95	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	s	14.64	11.08	0	0	0	0	0	0	0	0	
	D	11J0	0.600	s	21.96	17.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0	
	C	16B-38md	0.026	-	0.95	1.37	80	80	76	110	336	336	320	462	
F	22A-tpl	0.989	-	36.20	0.00	80	0	0	0	336	21	760	0		
6	c) AED excursion								-7				-41		
	Envelope loss/gain							76	103			2871	1756		
12	a) Infiltration							0	0			723	176		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230 Appliances/other					0			0	2			460		
									500				1200		
	Subtotal (lines 6 to 13)							76	603			3594	3592		
14	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							0	0			0	0		
	Subtotal							76	603			3594	3592		
15	Duct loads					30%	47%	23	286	30%	47%	1077	1703		
	Total room load								99	889			4671	5295	
	Air required (cfm)								4	42			199	250	

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

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1	Room name					Great Room					Bedroom 2				
2	Exposed wall					21.0 ft					28.5 ft				
3	Room height					12.0 ft					9.0 ft				
4	Room dimensions					1.0 x 404.0 ft					13.0 x 15.5 ft				
5	Room area					404.0 ft²					201.5 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	12C-0sw	0.091	n	3.33	2.22	0	0	0	0	117	87	290	193	
.	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	0	0	0	0	
.	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	30	0	439	328	
.	D	11J0	0.600	n	21.96	17.61	0	0	0	0	0	0	0	0	
11	W	12C-0sw	0.091	e	3.33	2.22	0	0	0	0	140	140	465	309	
	G	1D-c2ov	0.400	e	14.64	25.95	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	252	201	669	445	0	0	0	0	
	G	1D-c2ov	0.400	s	14.64	11.08	30	26	439	332	0	0	0	0	
	D	11J0	0.600	s	21.96	17.61	21	21	461	370	0	0	0	0	
	W	12C-0sw	0.091	w	3.33	2.22	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0	
	C	16B-38md	0.026	-	0.95	1.37	404	404	384	555	202	202	192	277	
	F	22A-tpl	0.989	-	36.20	0.00	404	21	760	0	202	29	1032	0	
6	c) AED excursion									-18				-23	
	Envelope loss/gain								2714	1684			2417	1083	
12	a) Infiltration								723	176			736	179	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants @ 230 Appliances/other						2			460 900	2			460 300	
	Subtotal (lines 6 to 13)								3437	3220			3153	2022	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								3437	3220			3153	2022	
15	Duct loads						30%	47%	1030	1527	30%	47%	945	959	
	Total room load								4467	4747			4097	2981	
	Air required (cfm)								190	224			174	141	

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

Right-J® Worksheet

Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Speicher

Date: Jun 15, 2021

By:

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1	Room name					Bath					Bedroom 3				
2	Exposed wall					6.0 ft					32.5 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					9.0 ft 9.0 x 6.0 ft					13.0 x 15.0 ft				
5	Room area					54.0 ft²					195.0 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	12C-0sw	0.091	n	3.33	2.22	0	0	0	0	0	0	0	0	
11	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.400	n	14.64	10.92	0	0	0	0	0	0	0	0	
	D	11J0	0.600	n	21.96	17.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	e	3.33	2.22	54	39	130	86	135	135	450	299	
	G	1D-c2ov	0.400	e	14.64	25.95	15	0	220	389	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	0	0	0	0	117	87	290	193	
	G	1D-c2ov	0.400	s	14.64	11.08	0	0	0	0	30	26	439	332	
	D	11J0	0.600	s	21.96	17.61	0	0	0	0	0	0	0	0	
	W	12C-0sw	0.091	w	3.33	2.22	0	0	0	0	41	41	135	90	
	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0	
	C	16B-38md	0.026	-	0.95	1.37	54	54	51	74	195	195	186	268	
	F	22A-tpi	0.989	-	36.20	0.00	54	6	217	0	195	33	1176	0	
	6	c) AED excursion								23				-6	
		Envelope loss/gain							618	573			2675	1176	
12	a) Infiltration							155	38			839	204		
	b) Room ventilation							0	0			0	0		
13	Internal gains: Occupants @ 230 Appliances/other					0			0	200	2			460 300	
	Subtotal (lines 6 to 13)								773	811			3514	2140	
14	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
	Subtotal								773	811			3514	2140	
15	Duct loads						30%	47%	232	384	30%	47%	1053	1014	
	Total room load								1004	1195			4567	3154	
	Air required (cfm)								43	56			194	149	

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



Manual S Compliance Report

Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Speicher

Date: Jun 15, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

Project Information

For: Rodney Wade- Speicher

Cooling Equipment

Design Conditions

Outdoor design DB: 91.9°F	Sensible gain: 23279 Btuh	Entering coil DB: 77.2°F
Outdoor design WB: 76.2°F	Latent gain: 3847 Btuh	Entering coil WB: 72.2°F
Indoor design DB: 75.0°F	Total gain: 27125 Btuh	
Indoor RH: 85%	Estimated airflow: 1100 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	
Manufacturer: Comfortmaker	Model: N4H436GKG21+FEM4X3600BL
Actual airflow: 1100 cfm	
Sensible capacity: 23100 Btuh	99% of load
Latent capacity: 9900 Btuh	257% of load
Total capacity: 33000 Btuh	122% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 33.4°F	Heat loss: 25881 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: N4H436GKG21+FEM4X3600BL
Actual airflow: 1100 cfm	
Output capacity: 27452 Btuh	106% of load
Supplemental heat required: 0 Btuh	
Capacity balance: 27 °F	
Economic balance: -99 °F	

Backup equipment type: Elec strip	
Manufacturer: n/a	Model: n/a+n/a
Actual airflow: 1100 cfm	
Output capacity: 7.3 kW	96% of load Temp. rise: 28 °F

Meets all requirements of ACCA Manual S.



wrightsoft®
A.MiTek® / Berkshire Hathaway Company

Right-Suite® Universal 2019 19.0.15 RSU08917

...ments\Wrightsoft HVAC\Rodney Wade- Speicher.rup Calc = MJ8 Front Door faces: N

2021-Jun-16 08:30:48

Page 1



Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form
RPER 1
15 Mar 09

Header Information

Contractor: Spann's Heating and Air INC.
Mechanical license: Jack Spann

Building plan #:

Home address (Street or Lot#, Block, Subdivision): , Entire House

REQUIRED ATTACHMENTS

Manual J1 Form (and supporting worksheets):
or MJ1AE Form* (and supporting worksheets):
OEM performance data (heating, cooling, blower):
Manual D Friction Rate Worksheet:
Duct distribution sketch:

ATTACHED

Yes	☐	No	☐
Yes	☐	No	☐
Yes	☐	No	☐
Yes	☐	No	☐
Yes	☐	No	☐

HVAC LOAD CALCULATION (IRC M1401.3)

Design Conditions

Winter Design Conditions

Outdoor temperature: 33 °F
Indoor temperature: 70 °F
Total heat loss: 25881 Btuh

Summer Design Conditions

Outdoor temperature: 92 °F
Indoor temperature: 75 °F
Grains difference: 0 gr/lb @85% RH
Sensible heat gain: 24023 Btuh
Latent heat gain: 3970 Btuh
Total heat gain: 27993 Btuh

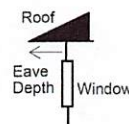
Building Construction Information

Building

Orientation: Front Door faces North
North, East, West, South, Northeast, Northwest, Southeast, Southwest
Number of bedrooms: 0
Conditioned floor area: 1699 ft²
Number of occupants: 10

Windows

Eave overhang depth: 1.0 ft
Internal shade: none
Blinds, drapes, etc.
Number of skylights: 0



HVAC EQUIPMENT SELECTION (IRC M1401.3)

Heating Equipment Data

Equipment type: Split ASHP
Furnace, Heat pump, Boiler, etc.
Model: Comfortmaker
N4H436GKG21+FEM4X3600BL
Heating output capacity: 27452 Btuh
Heat pumps - capacity at winter design outdoor conditions
Aux. heating output capacity: 24741 Btuh

Cooling Equipment Data

Equipment type: Split ASHP
Air Conditioner, Heat pump, etc.
Model: Comfortmaker
N4H436GKG21+FEM4X3600BL
Total cooling capacity: 0 Btuh
Sensible cooling capacity: 0 Btuh
Latent cooling capacity: 0 Btuh

Blower Data

Heating cfm: 1100
Cooling cfm: 1100
Static pressure: 0.70 in H2O
Fan's rated external static pressure for design airflow

HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

Design airflow: 1100 cfm	Longest supply duct: 349 ft	Duct Materials Used
Equipment design ESP: 0.70 in H2O	Longest return duct: 0 ft	Trunk duct: Sheet metal
Total device pressure losses: 0 in H2O	Total effective length (TEL): 349 ft	Branch duct: Round flex vinyl, Sheet metal
Available static pressure (ASP): 0.70 in H2O	Friction rate: 0.201 in/100ft Friction Rate = ASP ÷ (TEL × 100)	

I declare the load calculation, equipment, equipment selection and duct design were rigorously performed based on the building plan listed above. I understand the claims made on these forms will be subject to review and verification.

Contractor's printed name: _____

Contractor's signature: _____

Date: _____

Reserved for County, Town Municipality or Authority having jurisdiction use.

*Home qualifies for MJ1AE Form based on Abridged Edition Checklist



Duct System Summary

Entire House

Spann's Heating and Air INC.

Job: Rodney Wade- Speicher

Date: Jun 15, 2021

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spann21@bellsouth.net

Project Information

For: Rodney Wade- Speicher

	Heating	Cooling
External static pressure	0.70 in H2O	0.70 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0.70 in H2O	0.70 in H2O
Supply / return available pressure	0.350 / 0.350 in H2O	0.350 / 0.350 in H2O
Lowest friction rate	0.201 in/100ft	0.201 in/100ft
Actual air flow	1100 cfm	1100 cfm
Total effective length (TEL)	349 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 1195	43	56	0.203	5.0	0x0	VIFx	45.0	300.0	st1
Bedroom 2	h 4097	174	141	0.201	7.0	0x0	VIFx	48.5	300.0	st1
Bedroom 3	h 4567	194	149	0.202	7.0	0x0	VIFx	46.1	300.0	st1
Closet	h 1424	61	28	0.405	5.0	0x0	VIFx	12.8	160.0	st1
Great Room-A	c 4747	190	224	0.266	7.0	0x0	VIFx	28.5	235.0	st1
Kitchen-A	c 5295	199	250	0.262	7.0	0x0	VIFx	32.0	235.0	st1
Laundry	c 889	4	42	0.272	6.0	0x0	VIFx	12.0	245.0	st1
Master Bath	h 2774	118	85	0.402	5.0	0x0	VIFx	14.0	160.0	st1
Master Bedroom	c 2632	118	124	0.259	7.0	0x0	VIFx	15.0	255.0	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	1100	1100	0.201	0	12.4	8 x 0	ShtMetl	

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	1100	1100	0	0	0	0	0x 0		ShMt	

Bold/italic values have been manually overridden

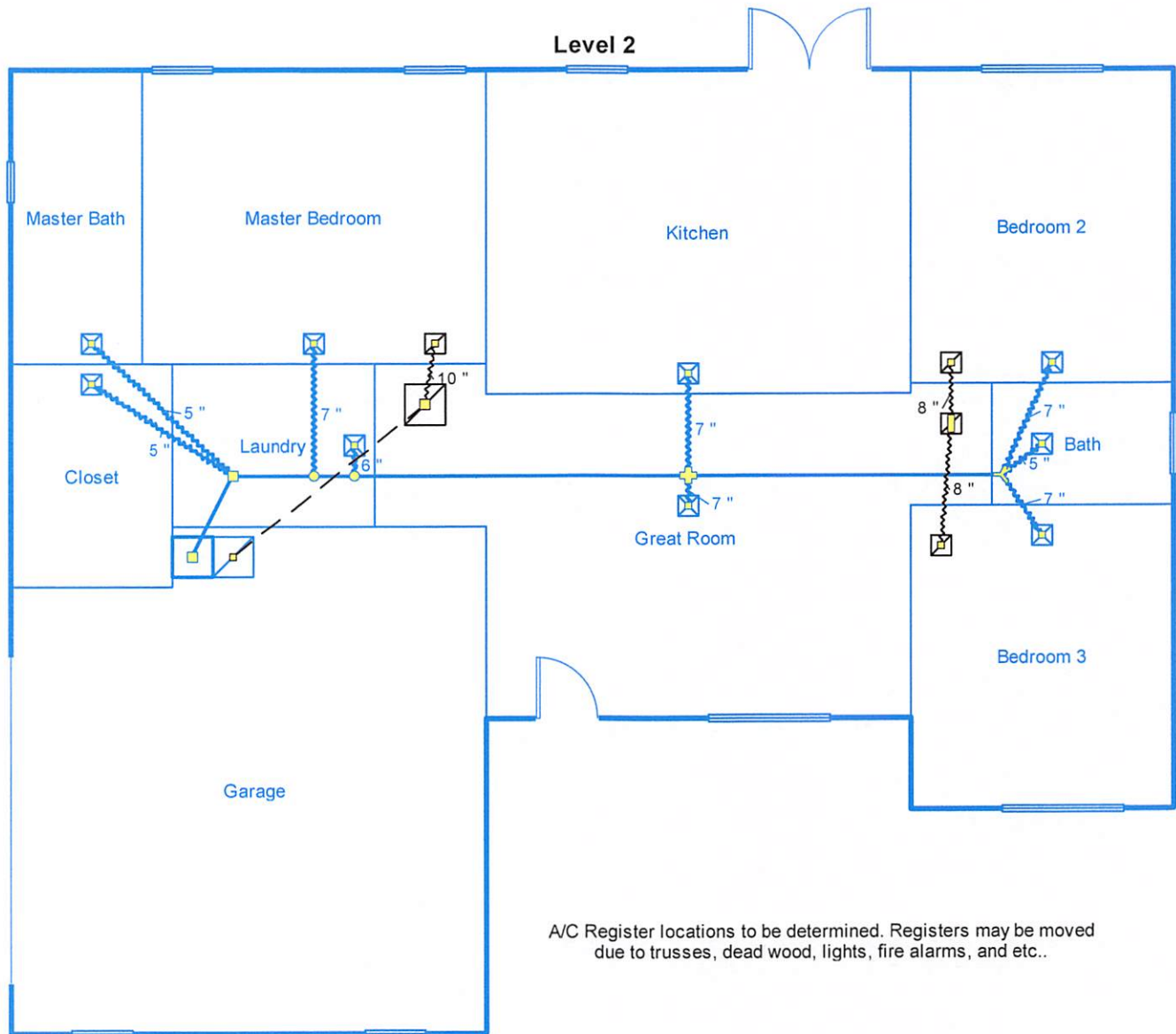


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Job #: Rodney Wade- Speicher
Performed for:
Rodney Wade- Speicher

Spann's Heating and Air INC.
16051 NW 30th Ave
Trenton, FL 32693
Phone: 3524636440
spann21@bellsouth.net

Scale: 1 : 101
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