



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

Job: Paul Wiser- Frowick

Date: Jan 22, 2021

By:

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

Project Information

For: Paul Wiser- Frowick

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 N4H430GKG10
 AHRI ref 9678048
 Efficiency 8.2 HSPF
 Heating input
 Heating output 28600 Btuh @ 47°F
 Temperature rise 27 °F
 Actual air flow 953 cfm
 Air flow factor 0.043 cfm/Btuh
 Static pressure 0.70 in H2O
 Space thermostat
 Capacity balance point = 28 °F

Backup: n/a n/a

Input = 6 kW. Output = 21026 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Comfortmaker
 Trade 14 SEER N SERIES R410A HP
 Cond N4H430GKG10
 Coil FEM4X3000BL
 AHRI ref 9678048
 Efficiency 11.5 EER, 14 SEER
 Sensible cooling 20020 Btuh
 Latent cooling 8580 Btuh
 Total cooling 28600 Btuh
 Actual air flow 953 cfm
 Air flow factor 0.046 cfm/Btuh
 Static pressure 0.70 in H2O
 Load sensible heat ratio 0.90

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom 2	150	2488	3389	108	154
Bath	50	731	1581	32	72
Master Bedroom	156	2877	2408	124	110
Kitchen	442	7394	7108	320	324
Living Room	481	8097	6147	350	280
Closet	43	123	111	5	5
1/2 Bath	30	332	163	14	7

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



Right-Suite® Universal 2019 19.0.15 RSU08917

...cuments\Wrightsoft HVAC\Paul Wiser- Frowick.rup Calc = MJ8 Front Door faces: N

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Entire House	d	1350	22041	20908	953	953
Other equip loads			0	0		
Equip. @ 0.97 RSM				20259		
Latent cooling				2304		
TOTALS		1350	22041	22563	953	953

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





Project Summary Entire House Spann's Heating and Air INC.

Job: Paul Wiser- Frowick
Date: Jan 22, 2021
By:

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

Project Information

For: Paul Wiser- Frowick

Notes:

Design Information

Weather: Gainesville Rgnl, FL, US

Winter Design Conditions

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

Heating Summary

Structure	17255 Btuh
Ducts	4786 Btuh
Central vent (0 cfm) (none)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	22041 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1350	1350
Volume (ft³)	15838	15838
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	119	61

Heating Equipment Summary

Make	Comfortmaker
Trade	14 SEER N SERIES R410A HP
Model	N4H430GKG10
AHRI ref	9678048
Efficiency	8.2 HSPF
Heating input	28600 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	953 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.70 in H2O
Space thermostat	
Capacity balance point = 28 °F	
Backup: n/a n/a	
Input = 6 kW, Output = 21026 Btuh, 100 AFUE	

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

Sensible Cooling Equipment Load Sizing

Structure	15054 Btuh
Ducts	5853 Btuh
Central vent (0 cfm) (none)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	20259 Btuh

Latent Cooling Equipment Load Sizing

Structure	800 Btuh
Ducts	1504 Btuh
Central vent (0 cfm) (none)	0 Btuh
Equipment latent load	2304 Btuh

Equipment Total Load (Sen+Lat)	22563 Btuh
Req. total capacity at 0.70 SHR	2.4 ton

Cooling Equipment Summary

Make	Comfortmaker
Trade	14 SEER N SERIES R410A HP
Cond	N4H430GKG10
Coil	FEM4X3000BL
AHRI ref	9678048
Efficiency	11.5 EER, 14 SEER
Sensible cooling	20020 Btuh
Latent cooling	8580 Btuh
Total cooling	28600 Btuh
Actual air flow	953 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.70 in H2O
Load sensible heat ratio	0.90

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



Right-Suite® Universal 2019 19.0.15 RSU08917

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Right-J® Worksheet

Entire House

Spann's Heating and Air INC.

Job: Paul Wiser- Frowick

Date: Jan 22, 2021

By:

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

1	Room name					Entire House					Bedroom 2				
2	Exposed wall					150.0 ft					24.5 ft				
3	Room height					11.7 ft					9.0 ft				
4	Room dimensions					d					12.5 x 12.0 ft				
5	Room area					1350.0 ft²					150.0 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	14A-8	0.091	n	3.33	1.42	535	496	1652	702	113	113	375	159	
11	G	1D-c2ov	0.570	n	20.86	21.29	9	0	188	192	0	0	0	0	
		1D-c2ov	0.570	n	20.86	21.29	30	0	626	639	0	0	0	0	
		14A-8	0.091	e	3.33	1.42	376	340	1132	481	0	0	0	0	
	W	1D-c2ov	0.570	e	20.86	57.82	15	2	313	867	0	0	0	0	
		11J0	0.600	e	21.96	17.61	21	21	461	370	0	0	0	0	
		14A-8	0.091	s	3.33	1.42	535	424	1412	600	0	0	0	0	
	G	1D-c2ov	0.570	s	20.86	21.29	90	90	1878	1916	0	0	0	0	
		11J0	0.600	s	21.96	17.61	21	21	461	370	0	0	0	0	
		14A-8	0.091	w	3.33	1.42	270	246	819	348	108	93	310	132	
	W	1D-c2ov	0.570	w	20.86	54.12	9	2	188	487	0	0	0	0	
		1D-c2ov	0.570	w	20.86	57.82	15	2	313	867	15	2	313	867	
		C	16B-38md	0.026	-	0.95	1.37	1350	1350	1285	1855	150	150	143	206
	F	19A-21bstp	0.045	-	1.31	0.61	1350	1350	1774	819	150	150	197	91	
	6	c) AED excursion								0				381	
		Envelope loss/gain							12501	10512			1337	1836	
12	a) Infiltration b) Room ventilation							4754 0	1122 0			611 0	144 0		
13	Internal gains: Occupants @ 230 Appliances/other					4			920 2500	2			460 0		
	Subtotal (lines 6 to 13)							17255	15054			1948	2440		
14	Less external load							0	0			0	0		
	Less transfer							0	0			0	0		
	Redistribution							0	0			0	0		
	Subtotal							17255	15054			1948	2440		
15	Duct loads					28%	39%	4786	5853	28%	39%	540	949		
	Total room load Air required (cfm)							22041 953	20908 953			2488 108	3389 154		

Right-J® Worksheet

Entire House

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1	Room name					Bath					Master Bedroom				
2	Exposed wall					5.5 ft					25.0 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					9.0 x 5.5 ft					12.5 x 12.5 ft				
5	Room area					49.5 ft²					156.3 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	14A-8	0.091	n	3.33	1.42	0	0	0	0	0	0	0	0	
11	G	1D-c2ov	0.570	n	20.86	21.29	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	n	20.86	21.29	0	0	0	0	0	0	0	0	
	W	14A-8	0.091	e	3.33	1.42	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	e	20.86	57.82	0	0	0	0	0	0	0	0	
	D	11J0	0.600	e	21.96	17.61	0	0	0	0	0	0	0	0	
	W	14A-8	0.091	s	3.33	1.42	0	0	0	0	113	83	275	117	
	G	1D-c2ov	0.570	s	20.86	21.29	0	0	0	0	30	30	626	639	
	D	11J0	0.600	s	21.96	17.61	0	0	0	0	0	0	0	0	
	W	14A-8	0.091	w	3.33	1.42	50	41	135	57	113	113	375	159	
	G	1D-c2ov	0.570	w	20.86	54.12	9	2	188	487	0	0	0	0	
	G	1D-c2ov	0.570	w	20.86	57.82	0	0	0	0	0	0	0	0	
C	16B-38md	0.026	-	0.95	1.37	50	50	47	68	156	156	149	215		
F	19A-21bstp	0.045	-	1.31	0.61	50	50	65	30	156	156	205	95		
6	c) AED excursion									264				-97	
	Envelope loss/gain								435	906			1629	1127	
12	a) Infiltration								137	32			623	147	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @		230		0			0	2			460	
			Appliances/other							200				0	
	Subtotal (lines 6 to 13)								572	1139			2253	1734	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								572	1139			2253	1734	
15	Duct loads						28%	39%	159	443	28%	39%	625	674	
	Total room load								731	1581			2877	2408	
	Air required (cfm)								32	72			124	110	

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

Right-J® Worksheet

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1 2 3 4 5	Room name		Exposed wall		Room height		Room dimensions		Room area		Kitchen		Living Room	
	13.0 ft		43.5 ft		1.0		x 441.5 ft		441.5 ft²		heat/cool		13.0 ft	
	48.0 ft		1.0		x 480.5 ft		480.5 ft²		heat/cool					
6	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	14A-8	0.091	n	3.33	1.42	423	384	1277	543	0	0	0	0
	G	1D-c2ov	0.570	n	20.86	21.29	9	0	188	192	0	0	0	0
	G	1D-c2ov	0.570	n	20.86	21.29	30	0	626	639	0	0	0	0
11	W	14A-8	0.091	e	3.33	1.42	143	107	356	151	202	202	671	285
	G	1D-c2ov	0.570	e	20.86	57.82	15	2	313	867	0	0	0	0
	D	11J0	0.600	e	21.96	17.61	21	21	461	370	0	0	0	0
	W	14A-8	0.091	s	3.33	1.42	0	0	0	0	423	342	1137	483
	G	1D-c2ov	0.570	s	20.86	21.29	0	0	0	0	60	60	1252	1277
	D	11J0	0.600	s	21.96	17.61	0	0	0	0	21	21	461	370
	W	14A-8	0.091	w	3.33	1.42	0	0	0	0	0	0	0	0
	G	1D-c2ov	0.570	w	20.86	54.12	0	0	0	0	0	0	0	0
	G	1D-c2ov	0.570	w	20.86	57.82	0	0	0	0	0	0	0	0
	C	16B-38md	0.026	-	0.95	1.37	442	442	420	607	481	481	457	660
	F	19A-21bstp	0.045	-	1.31	0.61	442	442	580	268	481	481	631	292
6	c) AED excursion									-288				-249
	Envelope loss/gain								4222	3348			4610	3118
12	a) Infiltration								1567	370			1729	408
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							1400				900
	Subtotal (lines 6 to 13)								5788	5118			6339	4426
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								5788	5118			6339	4426
15	Duct loads						28%	39%	1605	1990	28%	39%	1758	1721
	Total room load								7394	7108			8097	6147
	Air required (cfm)								320	324			350	280

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: Paul Wiser- Frowick

Date: Jan 22, 2021

By:

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1	Room name					Closet					1/2 Bath				
2	Exposed wall					0 ft					3.5 ft				
3	Room height					9.0 ft					9.0 ft				
4	Room dimensions					5.0 x 8.5 ft					8.5 x 3.5 ft				
5	Room area					42.5 ft²					29.8 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	14A-8	0.091	n	3.33	1.42	0	0	0	0	0	0	0	0	
11	G	1D-c2ov	0.570	n	20.86	21.29	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	n	20.86	21.29	0	0	0	0	0	0	0	0	
	W	14A-8	0.091	e	3.33	1.42	0	0	0	0	32	32	105	45	
	G	1D-c2ov	0.570	e	20.86	57.82	0	0	0	0	0	0	0	0	
	D	11J0	0.600	e	21.96	17.61	0	0	0	0	0	0	0	0	
	W	14A-8	0.091	s	3.33	1.42	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	s	20.86	21.29	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	14A-8	0.091	w	3.33	1.42	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	w	20.86	54.12	0	0	0	0	0	0	0	0	
	G	1D-c2ov	0.570	w	20.86	57.82	0	0	0	0	0	0	0	0	
C	16B-38md	0.026	-	0.95	1.37	43	43	40	58	30	30	28	41		
F	19A-21bstp	0.045	-	1.31	0.61	43	43	56	26	30	30	39	18		
6	c) AED excursion									-4				-7	
	Envelope loss/gain									96	80			172	97
12	a) Infiltration									0	0			87	21
	b) Room ventilation									0	0			0	0
13	Internal gains:		Occupants @ 230			0				0	0	0		0	0
	Subtotal (lines 6 to 13)									96	80			260	117
14	Less external load									0	0			0	0
	Less transfer									0	0			0	0
	Redistribution									0	0			0	0
	Subtotal									96	80			260	117
15	Duct loads					28%	39%			27	31	28%	39%	72	46
	Total room load									123	111			332	163
	Air required (cfm)									5	5			14	7

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: Paul Wiser- Frowick

Date: Jan 22, 2021

By:

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

Project Information

For: Paul Wiser- Frowick

Cooling Equipment

Design Conditions

Outdoor design DB: 91.9°F	Sensible gain: 20908 Btuh	Entering coil DB: 76.8°F
Outdoor design WB: 76.2°F	Latent gain: 2304 Btuh	Entering coil WB: 72.1°F
Indoor design DB: 75.0°F	Total gain: 23211 Btuh	
Indoor RH: 85%	Estimated airflow: 953 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: N4H430GKG10+FEM4X3000BL
Manufacturer: Comfortmaker	
Actual airflow: 953 cfm	
Sensible capacity: 20020 Btuh	96% of load
Latent capacity: 8580 Btuh	372% of load
Total capacity: 28600 Btuh	123% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 33.4°F	Heat loss: 22041 Btuh	Entering coil DB: 69.1°F
Indoor design DB: 70.0°F		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: N4H430GKG10+FEM4X3000BL	
Manufacturer: Comfortmaker		
Actual airflow: 953 cfm		
Output capacity: 28600 Btuh	130% of load	Capacity balance: 28 °F
Supplemental heat required: 0 Btuh		Economic balance: -99 °F

Backup equipment type: Elec strip	Model: n/a+n/a
Manufacturer: n/a	
Actual airflow: 953 cfm	
Output capacity: 6.2 kW	95% of load Temp. rise: 24 °F

Meets all requirements of ACCA Manual S.



wrightsoft®
AMTICK® / Berkshire Hathaway Company

Right-Suite® Universal 2019 19.0.15 RSU08917

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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: 22041 Btuh

Summer Design Conditions

Outdoor temperature: 92 °F
Indoor temperature: 75 °F
Grains difference: 0 gr/lb @85% RH
Sensible heat gain: 21576 Btuh
Latent heat gain: 2378 Btuh
Total heat gain: 23954 Btuh

Building Construction Information

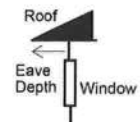
Building

Orientation: Front Door faces North
North, East, West, South, Northeast, Northwest, Southeast, Southwest

Number of bedrooms: 0
Conditioned floor area: 1350 ft²
Number of occupants: 4

Windows

Eave overhang depth: 2.0 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
N4H430GKG10+FEM4X3000BL
Heating output capacity: 0 Btuh
Heat pumps - capacity at winter design outdoor conditions
Aux. heating output capacity: 21026 Btuh

Cooling Equipment Data

Equipment type: Split ASHP
Air Conditioner, Heat pump, etc.
Model: Comfortmaker
N4H430GKG10+FEM4X3000BL
Total cooling capacity: 0 Btuh
Sensible cooling capacity: 0 Btuh
Latent cooling capacity: 0 Btuh

Blower Data

Heating cfm: 953
Cooling cfm: 953
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: 953 cfm	Longest supply duct: 202 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): 202 ft	Branch duct: Round flex vinyl, Sheet metal
Available static pressure (ASP): 0.70 in H2O	Friction rate: 0.347 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: Paul Wiser- Frowick
Date: Jan 22, 2021
By:

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

Project Information

For: Paul Wiser- Frowick

	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	0.347 in/100ft	0.347 in/100ft
Actual air flow	953 cfm	953 cfm
Total effective length (TEL)	202 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
1/2 Bath	h 332	14	7	0.367	5.0	0x0	VIFx	30.7	160.0	st1
Bath	c 1581	32	72	0.715	5.0	0x0	VIFx	2.9	95.0	
Bedroom 2	c 3389	108	154	0.366	7.0	0x0	VIFx	11.5	180.0	st1
Closet	h 123	5	5	0.385	5.0	0x0	VIFx	12.0	170.0	st1
Kitchen-A	c 7108	320	324	0.384	8.0	0x0	VIFx	22.1	160.0	st1
Living Room	h 8097	350	280	0.384	8.0	0x0	VIFx	22.2	160.0	st1
Master Bedroom	h 2877	124	110	0.347	7.0	0x0	VIFx	11.5	190.0	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	921	881	0.347	829	10.4	8 x 20	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	953	953	0	0	0	0	0x0		ShMt	

Bold/italic values have been manually overridden



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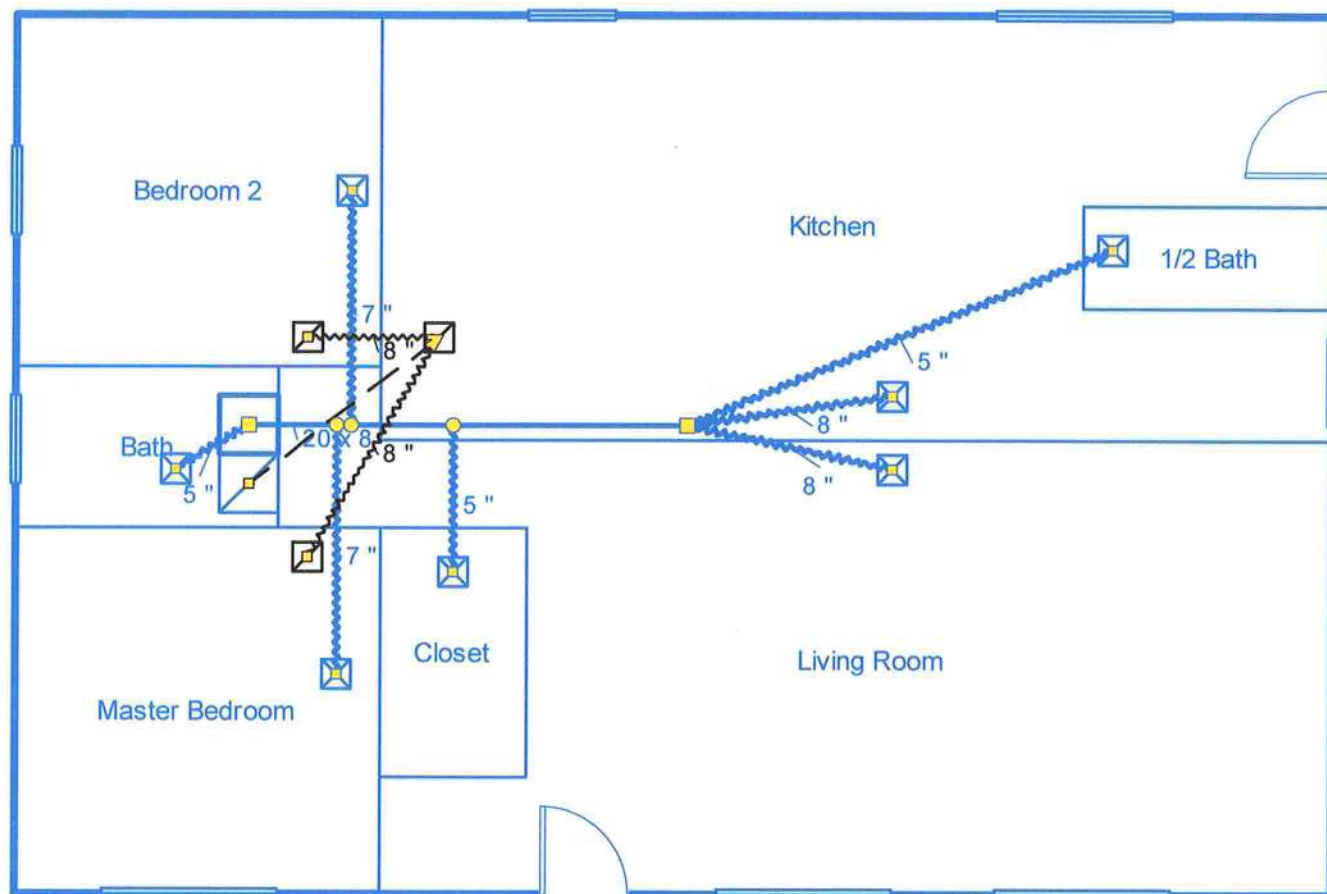
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Level 2



A/C Register locations to be determined. Registers may be moved due to trusses, dead wood, lights, fire alarms, and etc..

Job #: Paul Wiser- Frowick
Performed for:
Paul Wiser- Frowick

Spann's Heating and Air INC.

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