



Load Short Form

Entire House

Spann's Heating and Air INC.

Job: Live Well Custom Homes...

Date: Aug 28, 2023

By:

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

Project Information

For: Live Well Custom Homes-Anderson



Review for Code Compliance
Universal Engineering Science

Lawrence Pennell
Examiner-License No.

PX2707

10/22/2023

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 (%)	65	85		
Moisture difference (gr/lb)	49	0		

HEATING EQUIPMENT

Make Comfortmaker
Trade PERFORMANCE 15 SEER2 HP
Model N4H5S36*K*AAA*
AHRI ref
Efficiency 7.5 HSPF2
Heating input
Heating output 34000 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1140 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0 in H2O
Space thermostat
Capacity balance point = 26 °F

Backup: n/a n/a

Input = 6 kW, Output = 21213 Btuh, 100 AFUE

COOLING EQUIPMENT

Make Comfortmaker
Trade PERFORMANCE 15 SEER2 HP
Cond N4H5S36*K*AAA*
Coil FJMA4X36L*B*
AHRI ref
Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 23940 Btuh
Latent cooling 10260 Btuh
Total cooling 34200 Btuh
Actual air flow 1140 cfm
Air flow factor 0.074 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.90

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Kitchen	360	7773	5359	359	397
Living Room	332	2507	1708	116	127
Bedroom 3	167	3143	1840	145	136
Bedroom 2	144	3288	1851	152	137
Master Bath	99	469	386	22	29
Master Bedroom	203	3767	1977	174	147
Bath	60	74	151	3	11
Laundry	75	2626	1589	121	118
Closet	51	1047	522	48	39

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



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...soft HVACLive Well Custom Homes- Anderson.rup Calc = MJ8 Front Door faces: N

2023-Sep-14 09:35:37

Page 1

Entire House	d	1490	24694	15382	1140	1140
Other equip loads			0	0		
Equip. @ 0.97 RSM				14905		
Latent cooling				1745		
TOTALS		1490	24694	16649	1140	1140



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Page 2



Project Summary

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By:

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Project Information

For: Live Well Custom Homes-Anderson



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Universal Engineering Science

Notes:

Lawrence Pennell
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PX2707

10/22/2023

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	19039 Btuh
Ducts	5655 Btuh
Central vent (0 cfm) (none)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	24694 Btuh

Sensible Cooling Equipment Load Sizing

Structure	8270 Btuh
Ducts	7111 Btuh
Central vent (0 cfm) (none)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	14905 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Structure	0 Btuh
Ducts	1745 Btuh
Central vent (0 cfm) (none)	0 Btuh
Equipment latent load	1745 Btuh

	Heating	Cooling
Area (ft ²)	1490	1490
Volume (ft ³)	14303	14303
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	107	55

Equipment Total Load (Sen+Lat)	16649 Btuh
Req. total capacity at 0.70 SHR	1.8 ton

Heating Equipment Summary

Make	Comfortmaker
Trade	PERFORMANCE 15 SEER2 HP
Model	N4H5S36*K*AAA*
AHRI ref	
Efficiency	7.5 HSPF2
Heating input	
Heating output	34000 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	1140 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	
Capacity balance point = 26 °F	
Backup: n/a n/a	
Input = 6 kW, Output = 21213 Btuh, 100 AFUE	

Cooling Equipment Summary

Make	Comfortmaker
Trade	PERFORMANCE 15 SEER2 HP
Cond	N4H5S36*K*AAA*
Coil	FJMA4X36L*B*
AHRI ref	
Efficiency	12.0 EER2, 14.3 SEER2
Sensible cooling	23940 Btuh
Latent cooling	10260 Btuh
Total cooling	34200 Btuh
Actual air flow	1140 cfm
Air flow factor	0.074 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.90

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Page 1

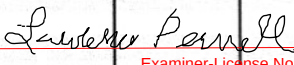
Right-J® Worksheet

Entire House

Spann's Heating and Air INC.

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Date: Aug 28, 2023
By:

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

1	Room name					Entire House					Kitchen				
2	Exposed wall					175.0 ft					54.0 ft				
3	Room height					9.6 ft					10.0 ft				
4	Room dimensions					d					15.0 x 24.0 ft				
5	Room area					1489.8 ft²					360.0 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	463	463	1540	1025	150	150	500	332	
	W	12C-0sw	0.091	e	3.33	2.22	379	379	1261	839	0	0	0	0	
	W	12C-0sw	0.091	s	3.33	2.22	443	375	1249	831	150	127	424	282	
	G	1D-c2ov	0.400	s	14.64	10.92	68	136	996	743	23	23	332	248	
11	W	12C-0sw	0.091	w	3.33	2.22	391	347	1155	769	240	217	724	482	
	G	1D-c2ov	0.400	w	14.64	25.95	23	0	332	588	23	0	332	588	
	D	11J0	0.600	w	21.96	17.61	21	21	461	370	0	0	0	0	
	C	16B-38ad	0.026	-	0.95	1.37	1490	1490	1418	2047	360	360	343	495	
	F	22A-tpi	0.989	-	36.20	0.00	1490	175	6335	0	360	54	1955	0	
 Review for Code Compliance Universal Engineering Science  Examiner-License No. PX2707 10/22/2023															
6	c) AED excursion									46				128	
	Envelope loss/gain								14746	7257			4608	2554	
12	a) Infiltration b) Room ventilation								4293 0	1013 0			1384 0	327 0	
13	Internal gains: Occupants @ 230 Appliances/other						0			0 0	0			0 0	
	Subtotal (lines 6 to 13)								19039	8270			5993	2881	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								19039	8270			5993	2881	
15	Duct loads						30%	86%	5655	7111	30%	86%	1780	2477	
	Total room load								24694	15382			7773	5359	
	Air required (cfm)								1140	1140			359	397	



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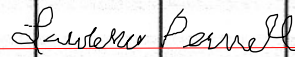
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1	Room name					Living Room					Bedroom 3				
2	Exposed wall					17.0 ft					22.5 ft				
3	Room height					10.0 ft					9.0 ft				
4	Room dimensions					1.0 x 331.8 ft					14.5 x 11.5 ft				
5	Room area					331.8 ft²					166.8 ft²				
	Ty	Construction 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	12C-0sw	0.091	n	3.33	2.22	100	100	333	222	0	0	0	0	
	W	12C-0sw	0.091	e	3.33	2.22	0	0	0	0	32	32	105	70	
	W	12C-0sw	0.091	s	3.33	2.22	50	50	167	111	131	108	359	239	
	G	1D-c2ov	0.400	s	14.64	10.92	0	0	0	0	23	23	332	248	
11	W	12C-0sw	0.091	w	3.33	2.22	20	20	67	44	41	41	135	90	
	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0	
	D	11J0	0.600	w	21.96	17.61	0	0	0	0	0	0	0	0	
	C	16B-38ad	0.026	-	0.95	1.37	332	332	316	456	167	167	159	229	
	F	22A-tpl	0.989	-	36.20	0.00	332	17	615	0	167	23	814	0	
 Review for Code Compliance Universal Engineering Science  Examiner-License No. PX2707 10/22/2023															
6	c) AED excursion									-17				-9	
	Envelope loss/gain								1497	815			1904	867	
12	a) Infiltration								436	103			519	123	
	b) Room ventilation								0	0			0	0	
13	Internal gains: Occupants@ Appliances/other					230	0			0	0	0		0	0
	Subtotal (lines 6 to 13)								1933	918			2423	989	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								1933	918			2423	989	
15	Duct loads						30%	86%	574	789	30%	86%	720	850	
	Total room load								2507	1708			3143	1840	
	Air required (cfm)								116	127			145	136	



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1 2 3 4 5							Bedroom 2 24.0 ft				Master Bath 3.0 ft			
							9.0 ft 12.5 x 11.5 ft				9.0 ft 1.0 x 98.5 ft			
							143.8 ft²				98.5 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	0	0	0	0
	W	12C-0sw	0.091	e	3.33	2.22	104	104	345	229	27	27	90	60
	W	12C-0sw	0.091	s	3.33	2.22	113	90	299	199	0	0	0	0
	G	1D-c2ov	0.400	s	14.64	10.92	23	23	332	248	0	0	0	0
11	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
	D	11J0	0.600	w	21.96	17.61	0	0	0	0	0	0	0	0
	C	16B-38ad	0.026	-	0.95	1.37	144	144	137	198	99	99	94	135
	F	22A-tpl	0.989	-	36.20	0.00	144	24	869	0	99	3	109	0
6	c) AED excursion									-9				-4
	Envelope loss/gain								1981	865			292	191
12	a) Infiltration								554	131			69	16
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants@ 230						0			0	0			0
	Appliances/other									0				0
	Subtotal (lines 6 to 13)								2535	995			361	208
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2535	995			361	208
15	Duct loads						30%	86%	753	856	30%	86%	107	179
	Total room load								3288	1851			469	386
	Air required (cfm)								152	137			22	29



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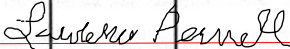
Right-J® Worksheet

Entire House

Spann's Heating and Air INC.

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By:

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1	Room name					Master Bedroom					Bath				
2	Exposed wall					28.5 ft					0 ft				
3	Room height					10.0 ft					9.0 ft				
4	Room dimensions					14.5 x 14.0 ft					6.0 x 10.0 ft				
5	Room area					203.0 ft²					60.0 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	145	145	483	321	0	0	0	0	
	W	12C-0sw	0.091	e	3.33	2.22	140	140	466	310	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	10.92	0	0	0	0	0	0	0	0	
11	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	
	D	11J0	0.600	w	21.96	17.61	0	0	0	0	0	0	0	0	
	C	16B-38ad	0.026	-	0.95	1.37	203	203	193	279	60	60	57	82	
	F	22A-tpl	0.989	-	36.20	0.00	203	29	1032	0	60	0	0	0	
Review for Code Compliance Universal Engineering Science  PX2707 10/22/2023 Examiner-License No.															
6	c) AED excursion									-20				-2	
	Envelope loss/gain								2174	890			57	81	
12	a) Infiltration								731	172			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @ Appliances/other		230		0			0	0	0		0	
	Subtotal (lines 6 to 13)								2905	1063			57	81	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								2905	1063			57	81	
15	Duct loads						30%	86%	863	914	30%	86%	17	70	
	Total room load								3767	1977			74	151	
	Air required (cfm)								174	147			3	11	



Review for Code Compliance
Universal Engineering Science

Lawrence A. Arnold
Examiner-License No.

PX2707

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Spann's Heating and Air INC.

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Date: Aug 28, 2023
By:

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1	Room name						Laundry				Closet			
2	Exposed wall						17.5 ft				8.5 ft			
3	Room height						9.0 ft				9.0 ft			
4	Room dimensions						7.5 x 10.0 ft				6.0 x 8.5 ft			
5	Room area						75.0 ft²				51.0 ft²			
	Ty	Construction number	U-value (Btu/h/ft²·°F)	Or	HTM (Btu/h/ft²)		Area (ft²) or perimeter (ft)		Load (Btu/h)		Area (ft²) or perimeter (ft)		Load (Btu/h)	
					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	68	68	225	150	0	0	0	0
.	W	12C-0sw	0.091	e	3.33	2.22	0	0	0	0	77	77	255	170
.	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	10.92	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	w	3.33	2.22	90	69	230	153	0	0	0	0
.	G	1D-c2ov	0.400	w	14.64	25.95	0	0	0	0	0	0	0	0
.	D	11J0	0.600	w	21.96	17.61	21	21	461	370	0	0	0	0
C		16B-38ad	0.026	-	0.95	1.37	75	75	71	103	51	51	49	70
F		22A-tpl	0.989	-	36.20	0.00	75	18	633	0	51	9	308	0
 Review for Code Compliance Universal Engineering Science														
 PX2707 10/22/2023 Examiner-License No.														
6	c) AED excursion									-16				-5
	Envelope loss/gain								1621	759			611	234
12	a) Infiltration								404	95			196	46
	b) Room ventilation								0	0			0	0
13	Internal gains: Occupants @ Appliances/other 230						0			0	0			0
	Subtotal (lines 6 to 13)								2024	855			807	281
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2024	855			807	281
15	Duct loads						30%	86%	601	735	30%	86%	240	241
	Total room load								2626	1589			1047	522
	Air required (cfm)								121	118			48	39

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



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.
Jack Spann
Mechanical license:
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: 24694 Btuh

Summer Design Conditions

Outdoor temperature: 92 °F
Indoor temperature: 75 °F
Grains difference: 0 gr/lb @85% RH
Sensible heat gain: 15874 Btuh
Latent heat gain: 1800 Btuh
Total heat gain: 17674 Btuh

Building Construction Information

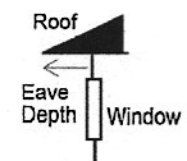
Building

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

Number of bedrooms: 0
Conditioned floor area: 1490 ft²
Number of occupants: 0

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
N4H5S36*K*AAA*+FJMA4X36L*B*
Heating output capacity: 0 Btuh
Heat pumps - capacity at winter design outdoor conditions
Aux. heating output capacity: 21213 Btuh

Cooling Equipment Data

Equipment type: Split ASHP
Air Conditioner, Heat pump, etc.
Model: Comfortmaker
N4H5S36*K*AAA*+FJMA4X36L*B*
Total cooling capacity: 0 Btuh
Sensible cooling capacity: 0 Btuh
Latent cooling capacity: 0 Btuh

Blower Data

Heating cfm: 1140
Cooling cfm: 1140
Static pressure: 0 in H₂O
Fan's rated external static pressure for design airflow

HVAC DUCT DISTRIBUTION SYSTEM DESIGN (IRC M1601.1)

Design airflow: 1140 cfm
Equipment design ESP: 0 in H₂O
Total device pressure losses: 0 in H₂O
Available static pressure (ASP): 0 in H₂O
Longest supply duct: 238 ft
Longest return duct: 0 ft
Total effective length (TEL): 238 ft
Friction rate: 0 in/100ft
Friction Rate = ASP ÷ (TEL x 100)
Duct Materials Used
Trunk duct: Sheet metal
Branch duct: Round flex vinyl, Sheet metal

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: Live Well Custom Homes...

Date: Aug 28, 2023

By:

16051 NW 30th Ave, Trenton, FL 32693 Phone: 3524636440 Email: spam21@bellsouth.net

Project Information

For: Live Well Custom Homes-Anderson



Review for Code Compliance
Universal Engineering Science

Lauren Parnell
Examiner-License No.

PX2707

10/22/2023

	Heating	Cooling
External static pressure	0 in H2O	0 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	0 in H2O	0 in H2O
Supply / return available pressure	0.000 / 0.000 in H2O	0.000 / 0.000 in H2O
Lowest friction rate	0 in/100ft	0 in/100ft
Actual air flow	1140 cfm	1140 cfm
Total effective length (TEL)		238 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 151	3	11	0	5.0	0x0	VFx	26.1	180.0	st1
Bedroom 2	h 1851	152	137	0	7.0	0x0	VFx	37.0	170.0	st1
Bedroom 3	h 1840	145	136	0	7.0	0x0	VFx	30.3	105.0	st1
Closet	h 522	48	39	0	5.0	0x0	VFx	33.0	205.0	st1
Kitchen-A	c 5359	359	397	0	7.0	0x0	VFx	37.0	190.0	st1
Laundry	h 1589	121	118	0	6.0	0x0	VFx	10.0	205.0	st1
Living Room	c 1708	116	127	0	7.0	0x0	VFx	31.5	195.0	st1
Master Bath	c 386	22	29	0	5.0	0x0	VFx	24.0	205.0	st1
Master Bedroom	h 1977	174	147	0	7.0	0x0	VFx	22.0	205.0	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	PeakAVF	1140	1140	0	0	0	0 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	1140	1140	0	0	0	0	0x 0		ShMt	

Bold/italic values have been manually overridden



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Page 1

...tsoft HVACLive Well Custom Homes- Anderson.rup Calc = MJ8 Front Door faces: N



Level 2

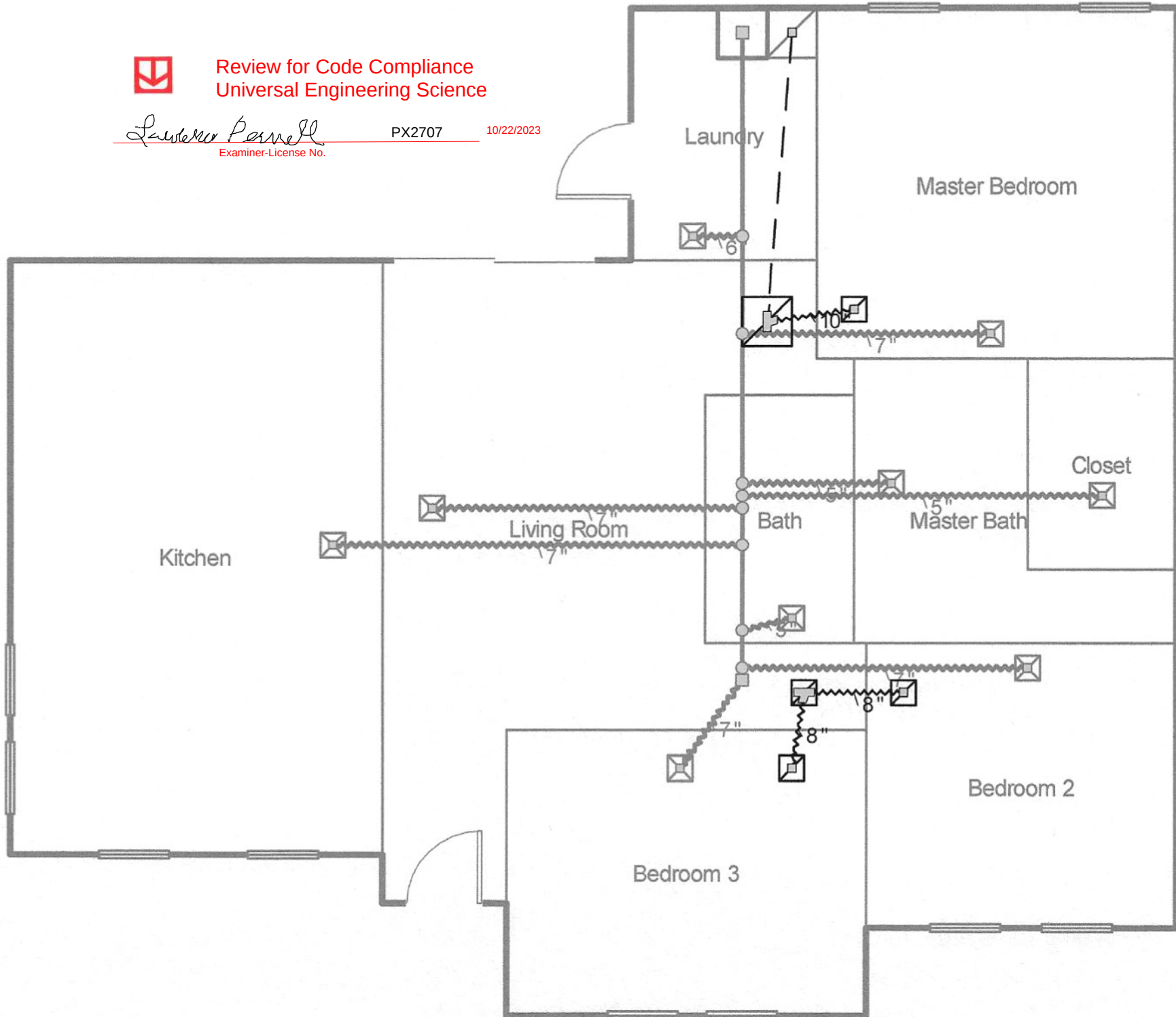


Review for Code Compliance
Universal Engineering Science

Lawrence Perrell
Examiner-License No.

PX2707

10/22/2023



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

Job #: Live Well Custom Homes- Anderson
Performed for:
Live Well Custom Homes-Anderson

Spann's Heating and Air INC.

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

Scale: 1 : 84

Page 1
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