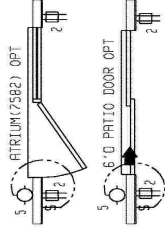
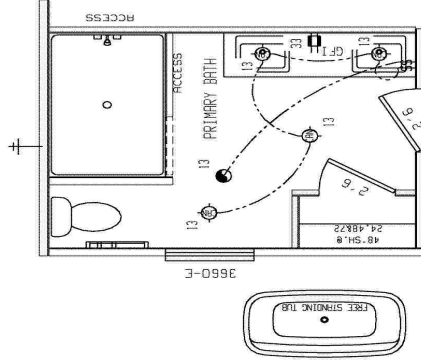
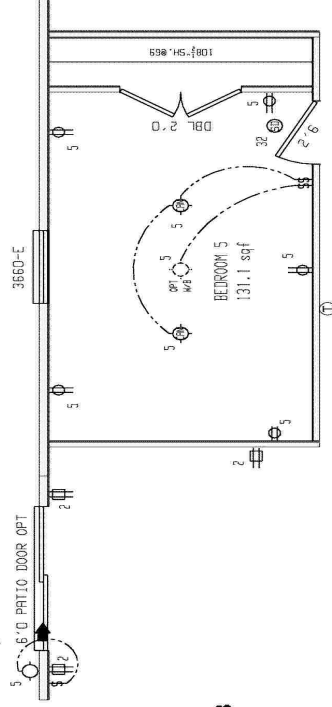


OPTIONAL CERAMIC SHOWER BATH



5TH BEDROOM OPTION



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10/11/2023
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-5425.0.1

BRAND		SERIES		HR28		REVISIONS										BY		DATE		GENERAL NOTES										DRAWING TITLE		MODEL NAME		5425		SQ. FT.			
CLAYTON																				CEILING HEIGHT = 96.00 REFER TO DATA PAGE MPF-2.0 FOR AREA LIGHT & VENT REFER TO DATA PAGE EL-1.2 FOR ELEC. SYMBOL & BRANCH CIRCUIT NUMBER										MASTER PLAN #2		5425		2001					
																														</									

BRAND		SERIES	REV IS I O N S		BY	DATE	G E N E R A L N O T E S		DRAWING TITLE		MODEL NAME		SQ. FT.											
CLAYTON		HR28					HOSE BIBBS PER SPECS		SUPPLY PLUMBING		5425		2001											
CLAYTON HOME BUILDING GROUP												PLANT	957	DESCRIPTION	28X76 4BR-2BA	MODEL NO.	5425							
											DRAWN BY	KLK	DATE	05/09/2023	DATE PRINTED	10/09/2023	SHEET NO.	9-1						

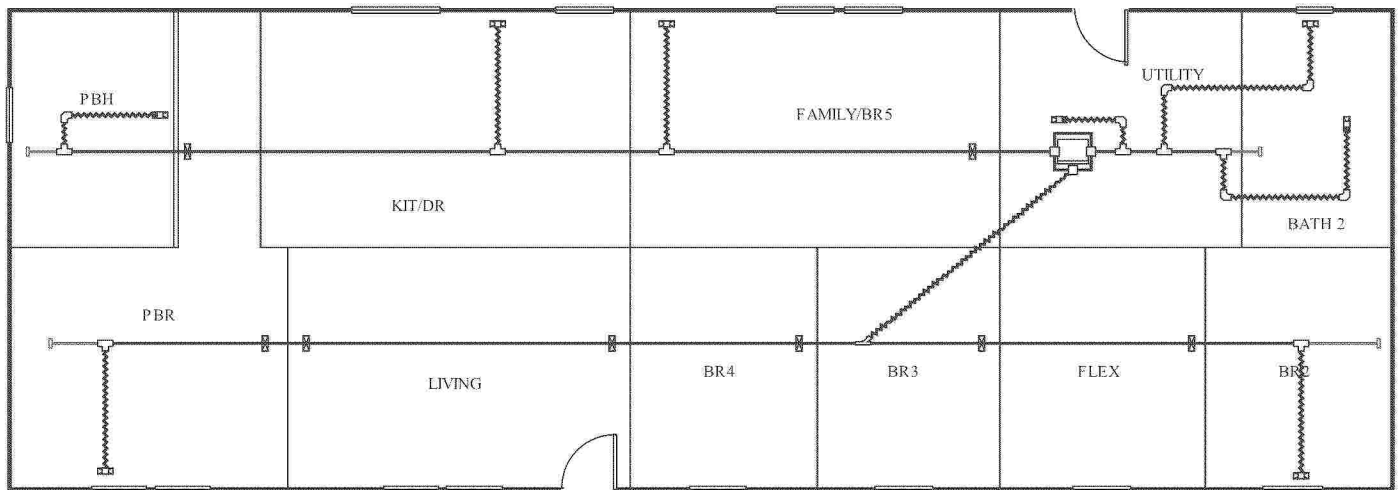


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INC.

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CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-5425.4.1

Job #: 5425
Performed by CLAYTON ROCKWELL for
5425
ROCKWELL, NC

Scale: 1 : 126
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Project Information

For: 5425, CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 31767 BTU/HR

APPROVED BY



Design Information

Weather: Fort Bragg/Simmons, NC, US

Winter Design Conditions

Outside db 26 °F
Inside db 70 °F
Design TD 44 °F

Summer Design Conditions

Outside db 95 °F
Inside db 75 °F
Design TD 20 °F
Daily range M
Relative humidity 50 %
Moisture difference 41 gr/lb

Heating Summary

Structure 19105 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 4338 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 23443 Btuh

Sensible Cooling Equipment Load Sizing

Structure 18112 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 1933 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 19985 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2715 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 2465 Btuh
Outside air
Equipment latent load 5180 Btuh
Equipment Total Load (Sen+Lat) 25165 Btuh
Req. total capacity at 0.70 SHR 2.4 ton

	Heating	Cooling
Area (ft ²)	1992	1992
Volume (ft ³)	15934	15934
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	99	48

Heating Equipment Summary

Make Smart Comfort
Trade
Model
AHRI ref
Efficiency 100 EFF
Heating input 10.0 kW
Heating output 34121 Btuh
Temperature rise 33 °F
Actual air flow 953 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat

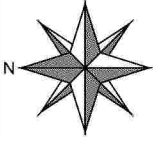
Cooling Equipment Summary

Make Smart Comfort
Trade PERFORMANCE 14 SEER2 AC
Cond R4A4S30*K*NAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.5 EER2, 15 SEER2
Sensible cooling 20020 Btuh
Latent cooling 8580 Btuh
Total cooling 28600 Btuh
Actual air flow 953 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.79

957-5425.4.2

Bold/italic values have been manually overridden

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



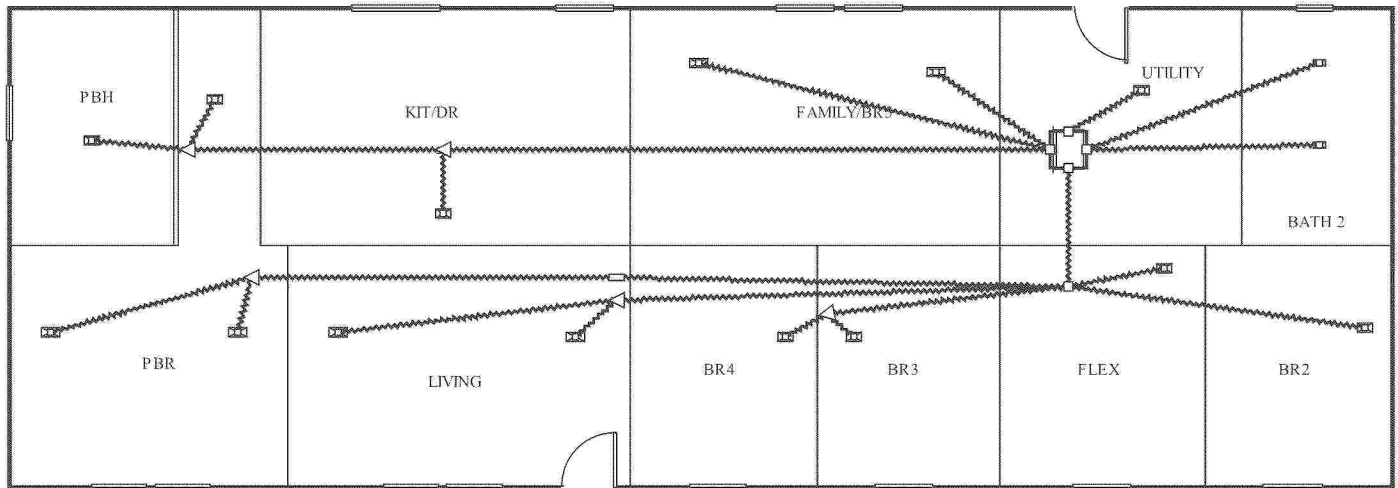
APPROVED BY

NIA INC.

10/11/2023

FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Level 1



957-5425.4.5

Job #: 5425(OVERHEAD)
Performed by CLAYTON ROCKWELL for
5425(OVERHEAD)
ROCKWELL, NC

Scale: 1 : 126
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Project Information

For: 5425(OVERHEAD), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 36667 BTU/HR

APPROVED BY



Design Information

Weather: SC 55

Winter Design Conditions

Outside db 28 °F
Inside db 70 °F
Design TD 42 °F

Summer Design Conditions

Outside db 95 °F
Inside db 75 °F
Design TD 20 °F
Daily range M
Relative humidity 50 %
Moisture difference 34 gr/lb

Heating Summary

Structure 18030 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 4097 Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 22127 Btuh

Sensible Cooling Equipment Load Sizing

Structure 18148 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 1955 Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 20083 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2508 Btuh
Ducts 0 Btuh
Central vent (90 cfm) 2078 Btuh
Outside air
Equipment latent load 4586 Btuh

	Heating	Cooling
Area (ft ²)	1992	1992
Volume (ft ³)	15934	15934
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	99	48

Equipment Total Load (Sen+Lat) 24669 Btuh
Req. total capacity at 0.70 SHR 2.4 ton

Heating Equipment Summary

Make Smart Comfort
Trade
Model
AHRI ref
Efficiency 100 EFF
Heating input 10.0 kW
Heating output 34121 Btuh
Temperature rise 28 °F
Actual air flow 1100 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 AC
Cond R4A5S36*K*WAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.5 EER2, 15.2 SEER2
Sensible cooling 23100 Btuh
Latent cooling 9900 Btuh
Total cooling 33000 Btuh
Actual air flow 1100 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.81

957-5425.4.6

Bold/italic values have been manually overridden

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

Project Information

For: 5425(OVERHEAD), CLAYTON 957
 ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB:	94.9°F	Sensible gain:	20103 Btuh	Entering coil DB:	76.7°F
Outdoor design WB:	74.9°F	Latent gain:	4586 Btuh	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	24689 Btuh		
Indoor RH:	50%	Estimated airflow:	1100 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split AC				
Manufacturer:	Smart Comfort	Model:	R4A5S36*K*WAA*+FEVA0036**+NAVA43601CK		
Actual airflow:	1100 cfm				
Sensible capacity:	23100 Btuh	115% of load			
Latent capacity:	9900 Btuh	216% of load			
Total capacity:	33000 Btuh	134% of load	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	28.3°F	Heat loss:	22127 Btuh	Entering coil DB:	66.5°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Elec strip				
Manufacturer:	Smart Comfort	Model:			
Actual airflow:	1100 cfm				
Output capacity:	10.0 kW	154% of load		Temp. rise:	28 °F

Meets all requirements of ACCA Manual S.

957-5425.4.7