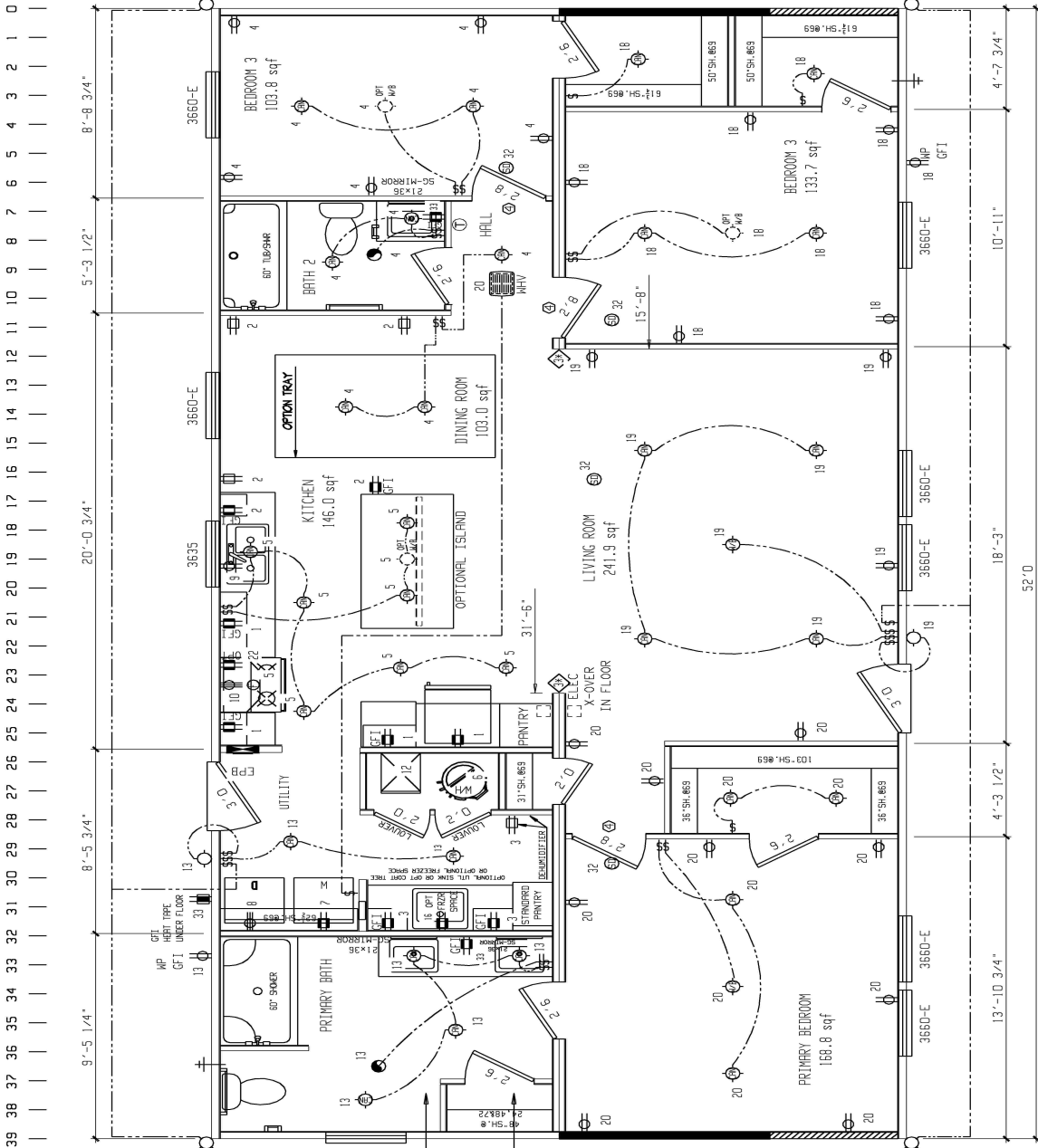


957-3025.0



957-3025.0

REVISIONS		BY DATE		GENERAL NOTES		DRAWING TITLE		MODEL NAME		50. FT.	
1											1369
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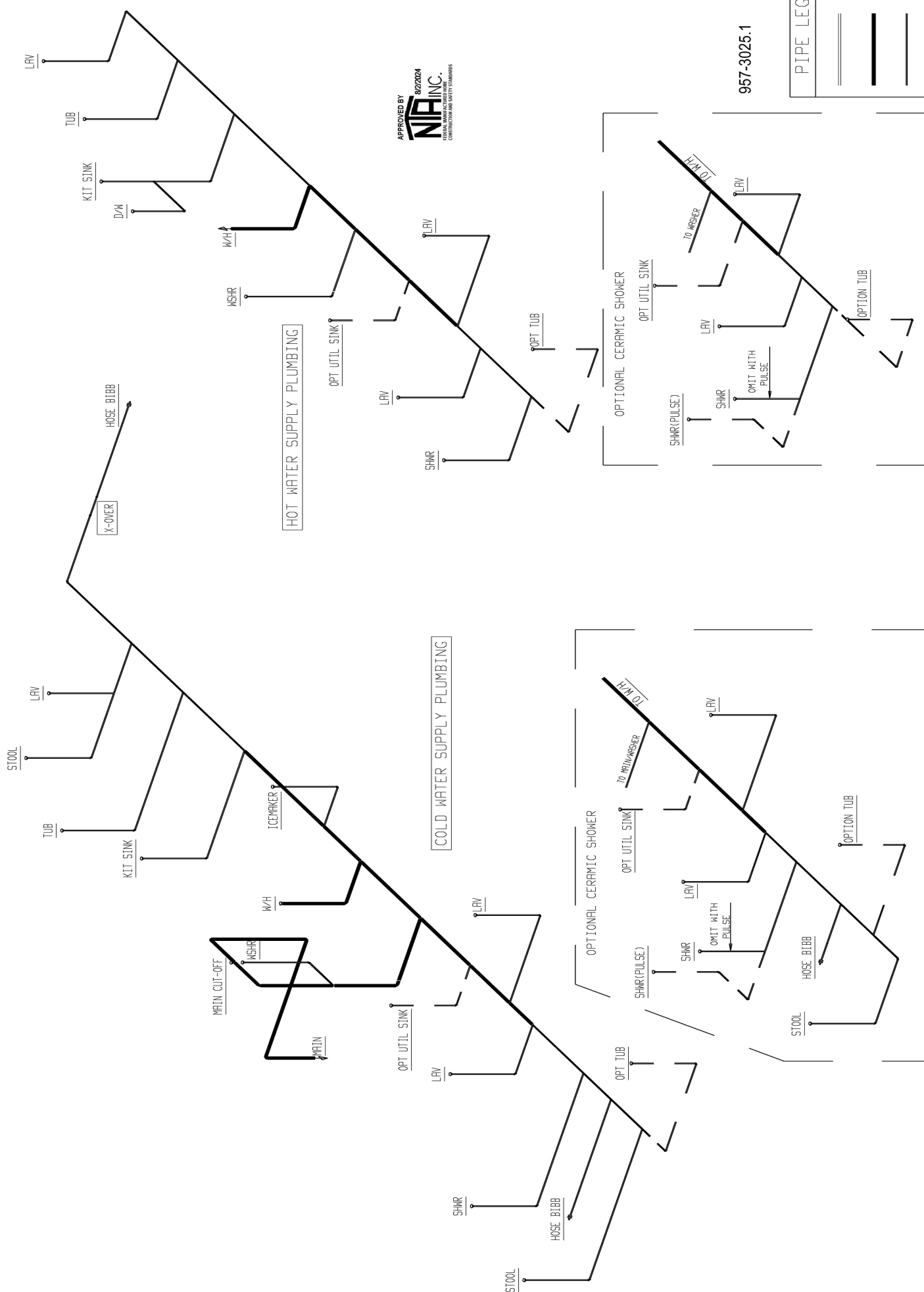
MASTER PLAN

CLAYTON
 HOME BUILDING GROUP

CEILING HEIGHT = 96.00
 REFER TO DWP/PA PAGE MPF-2.0 FOR AREA LIGHT & VENT
 REFER TO DWP/PA PAGE EL-1.2 FOR ELEC. SYMBOL & BRANCH CIRCUIT NUMBER
 FLOOR FRAMING SPACING = 16
 TOTAL WINDOW SQFT = 132

INDICATES REQUIRED NUMBER OF STUDS IN COLUMN
 THE * SPECIFIES THAT THERE CAN BE NO HOLES IN STUDS IN COLUMNS
 RETURN AIR REQUIREMENTS
 1) 20"x16" GRILL REQUIRED
 2) 4"x10" GRILL W/ 2 1/2" DOOR UNDERCUT
 3) DOOR(S) MUST BE UNDERCUT 2 1/2" MIN.
 4) 4"x24" OR 6"x14" GRILL REQUIRED

PLANT	DESCRIPTION	MODEL NO.	50. FT.
957	28X52 3BR-2BA	3025	1369
DRAWN BY	ORIG. DATE	DATE PRINTED	SHEET NO.
GDB	07/15/2024	12/05/2024	1-1



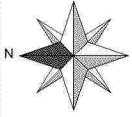
APPROVED BY
8/2/2024
NAINC.
NATIONAL ASSOCIATION OF
INSTALLERS AND SERVICE TECHNICIANS

957-3025.1

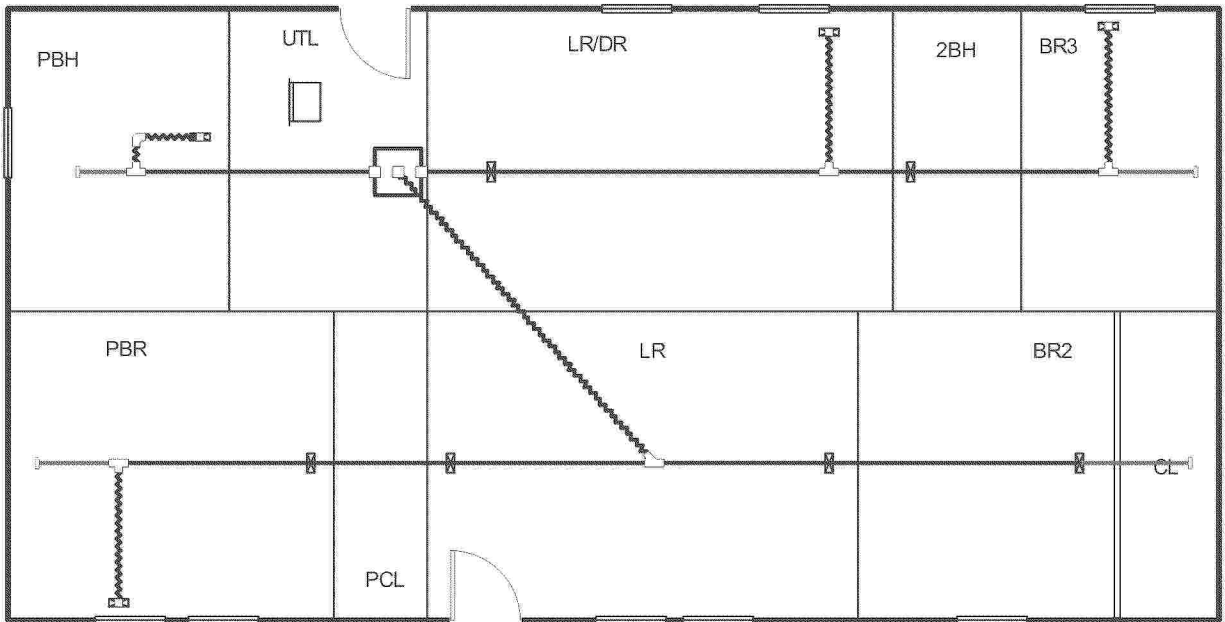
PIPE LEGEND

1"
3/4"
1/2"

BRAND	CLAYTON	SERIES	FS28	MODEL NAME	3025	SO. FT.	1369
DRAWING TITLE				SUPPLY PLUMBING			
GENERAL NOTES				HOSE BIBBS PER SPECS			
REVISIONS				DATE			
BY				DATE			
PLANT				DESCRIPTION			
957				28X52 3BR-2BA			
DRAWN BY				DATE PRINTED			
GDB				07/15/2024			
SHEET NO.				9-1			



Level 1



APPROVED BY
NIA INC. 8/2/2024
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-3025.4.1

<p>Job #: 3025(l) Performed by CLAYTON ROCKWELL for: 3025(l) ROCKWELL, NC</p>		<p>Scale: 1 : 93 Page 1 Right-Suite@ Universal 2023 23.0.04 RSU59516 2024-Jul-25 13:27:31 ...layton Homes\Desktop\3025(l).rup</p>
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Manual S Compliance Report

Entire House

Job: 3025(I)
 Date: July 25, 2024
 By: CLAYTON ROCKWELL

Project Information

For: 3025(I), CLAYTON 957
 ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB: 94.7°F	Sensible gain: 14642 Btuh	Entering coil DB: 76.6°F
Outdoor design WB: 75.9°F	Latent gain: 3761 Btuh	Entering coil WB: 63.7°F
Indoor design DB: 75.0°F	Total gain: 18404 Btuh	
Indoor RH: 50%	Estimated airflow: 780 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK
 Actual airflow: 780 cfm
 Sensible capacity: 16380 Btuh 112% of load
 Latent capacity: 7020 Btuh 187% of load
 Total capacity: 23400 Btuh 127% of load SHR: 70%

Heating Equipment

Design Conditions

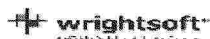
Outdoor design DB: 25.8°F	Heat loss: 17480 Btuh	Entering coil DB: 66.5°F
Indoor design DB: 70.0°F		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK
 Actual airflow: 780 cfm
 Output capacity: 22800 Btuh 130% of load Capacity balance: 21 °F
 Supplemental heat required: 0 Btuh Economic balance: -99 °F

Backup equipment type: Elec strip
 Manufacturer: Smart Comfort Model:
 Actual airflow: 780 cfm
 Output capacity: 10.0 kW 195% of load Temp. rise: 40 °F

Meets all requirements of ACCA Manual S.





Project Summary
Entire House



Job: 3025(I)
Date: July 25, 2024
By: CLAYTON ROCKWELL

Project Information

For: 3025(I), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

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 14588 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **2892** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 17480 Btuh

Sensible Cooling Equipment Load Sizing

Structure 13354 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **1289** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 14599 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2118 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **1644** Btuh
Outside air
Equipment latent load 3761 Btuh
Equipment Total Load (Sen+Lat) 18360 Btuh
Req. total capacity at 0.70 SHR 1.7 ton

	Heating	Cooling
Area (ft ²)	1368	1368
Volume (ft ³)	10947	10947
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	88	48

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S24*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 22800 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 780 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 21 °F

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Cond R4H5S24*K*AAA*
Coil FEVA0024**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 15.2 SEER2
Sensible cooling 16380 Btuh
Latent cooling 7020 Btuh
Total cooling 23400 Btuh
Actual air flow 780 cfm
Air flow factor 0.058 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

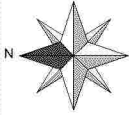
Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

957-3025.4.3

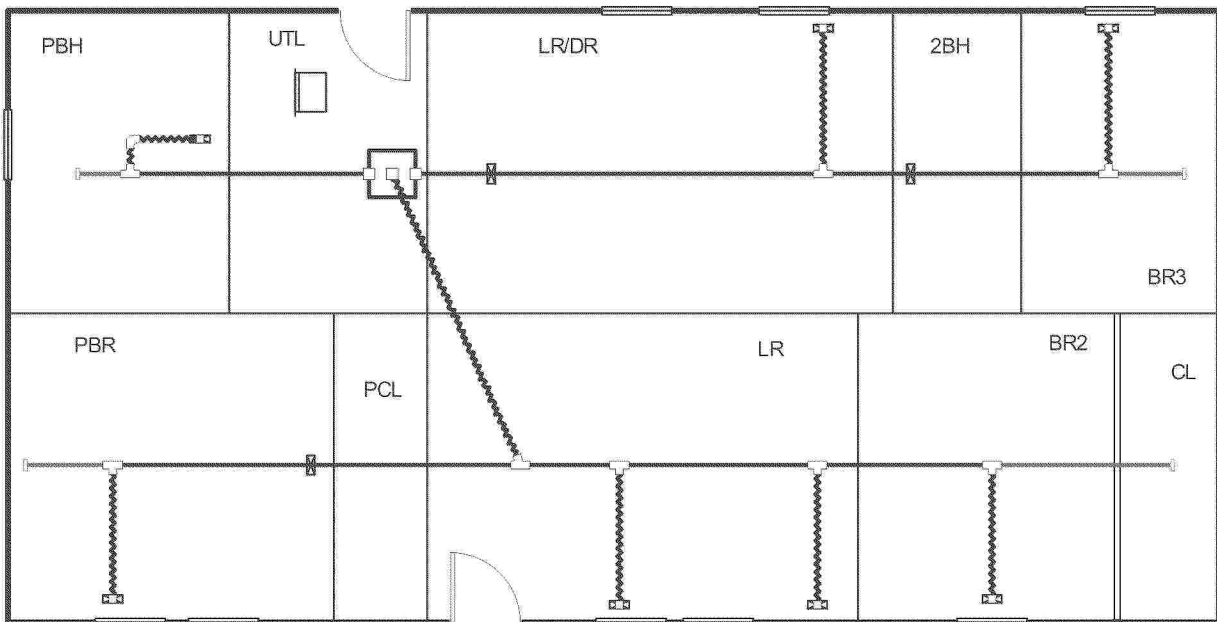
Bold/italic values have been manually overridden

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





Level 1



APPROVED BY
NIA INC. 8/2/2024
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-3025.4.4

<p>Job #: 3025(P) Performed by CLAYTON ROCKWELL for: 3025(P) ROCKWELL, NC</p>		<p>Scale: 1 : 93 Page 1 Right-Suite@ Universal 2023 23.0.04 RSU59516 2024-Jul-25 13:55:12 ...Jayton Homes\Desktop\3025(P).rup</p>
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Manual S Compliance Report

Entire House

Job: 3025(P)
 Date: July 25, 2024
 By: CLAYTON ROCKWELL

Project Information

For: 3025(P), CLAYTON 957
 ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB: 94.7°F	Sensible gain: 14642 Btuh	Entering coil DB: 76.6°F
Outdoor design WB: 75.9°F	Latent gain: 3761 Btuh	Entering coil WB: 63.7°F
Indoor design DB: 75.0°F	Total gain: 18404 Btuh	
Indoor RH: 50%	Estimated airflow: 780 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK
 Actual airflow: 780 cfm
 Sensible capacity: 16380 Btuh 112% of load
 Latent capacity: 7020 Btuh 187% of load
 Total capacity: 23400 Btuh 127% of load SHR: 70%

Heating Equipment

Design Conditions

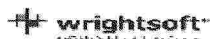
Outdoor design DB: 25.8°F	Heat loss: 17480 Btuh	Entering coil DB: 66.5°F
Indoor design DB: 70.0°F		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK
 Actual airflow: 780 cfm
 Output capacity: 22800 Btuh 130% of load Capacity balance: 21 °F
 Supplemental heat required: 0 Btuh Economic balance: -99 °F

Backup equipment type: Elec strip
 Manufacturer: Smart Comfort Model:
 Actual airflow: 780 cfm
 Output capacity: 10.0 kW 195% of load Temp. rise: 40 °F

Meets all requirements of ACCA Manual S.





Project Summary
Entire House

APPROVED BY



Job: 3025(P)
Date: July 25, 2024
By: CLAYTON ROCKWELL

Project Information

For: 3025(P), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

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 14588 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **2892** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 17480 Btuh

Sensible Cooling Equipment Load Sizing

Structure 13354 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **1289** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 14599 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2118 Btuh
Ducts 0 Btuh
Central vent (60 cfm) **1644** Btuh
Outside air
Equipment latent load 3761 Btuh
Equipment Total Load (Sen+Lat) 18360 Btuh
Req. total capacity at 0.70 SHR 1.7 ton

	Heating	Cooling
Area (ft ²)	1368	1368
Volume (ft ³)	10947	10947
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	88	48

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S24*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 22800 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 780 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 21 °F

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Cond R4H5S24*K*AAA*
Coil FEVA0024**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 15.2 SEER2
Sensible cooling 16380 Btuh
Latent cooling 7020 Btuh
Total cooling 23400 Btuh
Actual air flow 780 cfm
Air flow factor 0.058 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

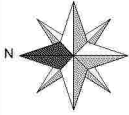
Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

957-3025.4.6

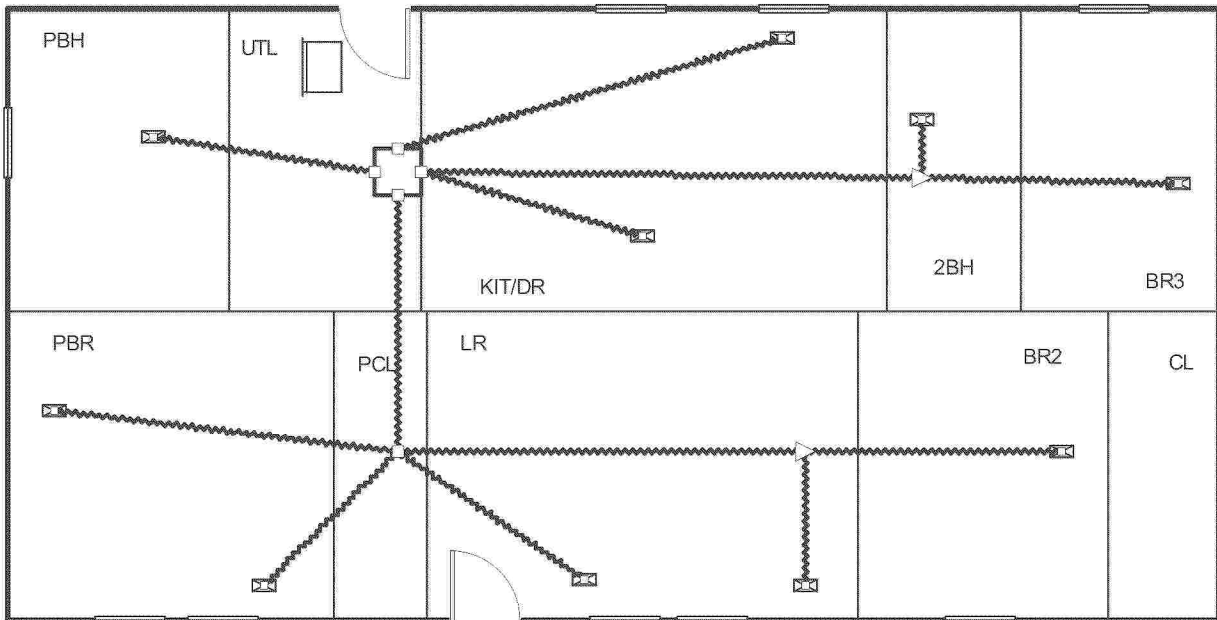
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Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





Level 1



APPROVED BY
NIA INC. 8/2/2024
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-3025.4.7

<p>Job #: 3025(OHVD) Performed by CLAYTON ROCKWELL for: 3025(OHVD) ROCKWELL, NC</p>		<p>Scale: 1 : 93 Page 1 Right-Suite@ Universal 2023 23.0.04 RSU59516 2024-Jul-26 08:28:20 ...ton Homes\Desktop\3025(OHVD).rup</p>
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Project Summary
Entire House

APPROVED BY



Job: 3025(OHVD)
Date: Jul 26, 2024
By: CLAYTON ROCKWELL

Project Information

For: 3025(OHVD), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 30,667 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

Design Information

Weather: Jacksonville Intl, FL, US

Winter Design Conditions

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

Summer Design Conditions

Outside db 93 °F
Inside db 75 °F
Design TD 18 °F
Daily range M
Relative humidity 50 %
Moisture difference 49 gr/lb

Heating Summary

Structure 12282 Btuh
Ducts 4721 Btuh
Central vent (60 cfm) **2452** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 19455 Btuh

Sensible Cooling Equipment Load Sizing

Structure 12835 Btuh
Ducts 4627 Btuh
Central vent (60 cfm) **1160** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.98
Equipment sensible load 18175 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2409 Btuh
Ducts 1105 Btuh
Central vent (60 cfm) **2011** Btuh
Outside air
Equipment latent load 5526 Btuh

	Heating	Cooling
Area (ft ²)	1365	1365
Volume (ft ³)	10920	10920
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	88	48

Equipment Total Load (Sen+Lat) 23701 Btuh
Req. total capacity at 0.70 SHR 2.2 ton

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Model R4H5S30*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 28000 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 920 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 25 °F

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Cond R4H5S30*K*AAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 19320 Btuh
Latent cooling 8280 Btuh
Total cooling 27600 Btuh
Actual air flow 920 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.77

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

957-3025.4.8

Bold/italic values have been manually overridden

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



Project Information

For: 3025(OHVD), CLAYTON 957
ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB:	92.6°F	Sensible gain:	18622 Btuh	Entering coil DB:	76.2°F
Outdoor design WB:	76.8°F	Latent gain:	5526 Btuh	Entering coil WB:	63.6°F
Indoor design DB:	75.0°F	Total gain:	24148 Btuh		
Indoor RH:	50%	Estimated airflow:	920 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	R4H5S30*K*AAA*+FEVA0036***+NAVA43601CK
Manufacturer:	Smart Comfort		
Actual airflow:	920 cfm		
Sensible capacity:	19320 Btuh	104% of load	
Latent capacity:	8280 Btuh	150% of load	
Total capacity:	27600 Btuh	114% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	32.8°F	Heat loss:	19455 Btuh	Entering coil DB:	67.5°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP	Model:	R4H5S30*K*AAA*+FEVA0036***+NAVA43601CK
Manufacturer:	Smart Comfort		
Actual airflow:	920 cfm		
Output capacity:	28000 Btuh	144% of load	Capacity balance: 25 °F
Supplemental heat required:	0 Btuh		Economic balance: -99 °F

Backup equipment type:	Elec strip	Model:	
Manufacturer:	Smart Comfort		
Actual airflow:	920 cfm		
Output capacity:	10.0 kW	175% of load	Temp. rise: 34 °F

Meets all requirements of ACCA Manual S.



CLAYTON HOME BUILDING GROUP

3025 ZN 1 & 2

Model Number	3025	Drawing Number	3025
			Version 17

BOX SIZE: 26.33 ft. x 52 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-161	THP-552	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0808	0.0285

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Doors:			
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	132.00	0.300	39.60
Option	0.00	0.300	0.00
Floor	1369.33	0.045	60.94
Wall	1077.33	0.081	87.05
Ceiling	1369.33	0.0285	39.03
Ext. Duct	78.50	0.242	18.98
Ext. Duct	78.50	0.223	17.48
Ext. Duct	78.50	0.206	16.14
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	270.5
Th. Zone 2	147.3
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
	1	11	256.37	0.063	OK
2	0	254.87	0.063	OK	364.50
3	-14	253.53	0.062	NG	363.20

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-23	5	10kW
-42	-8	12kW
-70	-28	15kW
-39	-7	40k Gas
-94	-45	60k Gas
-149	-83	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

3025 ZN 1 WITH OVERHEAD AND PATIO/TRIUM DOOR

Model Number	3025	Drawing Number	3025
			Version 17

BOX SIZE: 26.33 ft. x 52 ft.
 AVG. SIDEWALL HEIGHT = 8 FEET
 PERCENTAGE OF CEILING THAT IS VAULTED = 0%

OVERHEAD DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-161	THP-552	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0808	0.0285

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	4
6	66
7	43
8	15
9	0
12	8
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:
 Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	132.00	0.300	39.60
Option	0.00	0.300	0.00
Floor	1369.33	0.045	60.94
Wall	1077.33	0.081	87.05
Ceiling	1369.33	0.0285	39.03
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Supply	15.45	0.242	3.74
Supply	15.45	0.223	3.44
Supply	15.45	0.21	3.18

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	314.8
Th. Zone 2	188.7
Th. Zone 3	26.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	241.13	0.060	OK	350.80
2	0	240.83	0.060	OK	350.50
3	-14	240.57	0.060	NG	350.20

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-27	2	10kW
-47	-12	12kW
-76	-32	15kW
-44	-10	40k Gas
-101	-50	60k Gas
-158	-90	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

3025 ZN 1 WITH OVERHEAD AND PATIO/TRIUM DOOR

Model Number	3025	Drawing Number	3025
			Version 17

BOX SIZE: 26.33 ft. x 52 ft.
 AVG. SIDEWALL HEIGHT = 8 FEET
 PERCENTAGE OF CEILING THAT IS VAULTED = 0%

OVERHEAD DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-161	THP-552	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0808	0.0285

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	4
6	66
7	43
8	15
9	0
12	8
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Doors: Front	22.00	0.210	4.62
Doors: Rear	43.00	0.280	12.04
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	117.00	0.300	35.10
Option	0.00	0.300	0.00
Net: Floor	1369.33	0.045	60.94
Net: Wall	1071.33	0.081	86.56
Net: Ceiling	1369.33	0.0285	39.03
Th. Zone 1: Ext. Duct	0.00	0.000	0.00
Th. Zone 2: Ext. Duct	0.00	0.000	0.00
Th. Zone 3: Ext. Duct	0.00	0.000	0.00
Overhead TZ 1: Supply	15.45	0.242	3.74
Overhead TZ 2: Supply	15.45	0.223	3.44
Overhead TZ 3: Supply	15.45	0.21	3.18

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	295.7
Th. Zone 2	169.6
Th. Zone 3	6.9

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
	1	11	242.02	0.061	OK
2	0	241.73	0.061	OK	351.40
3	-14	241.46	0.060	NG	351.10

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-27	2	10kW
-46	-11	12kW
-76	-32	15kW
-44	-10	40k Gas
-101	-49	60k Gas
-157	-89	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

3025 ZN 1 & 2 WITH PATIO/TRIUM DOOR

Model Number	3025	Drawing Number	3025	Version 17
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BOX SIZE: 26.33 ft. x 52 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-161	THP-552	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0445	0.0808	0.0285

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:
 Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	43.00	0.280	12.04
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	117.00	0.300	35.10
Option	0.00	0.300	0.00
Floor	1369.33	0.045	60.94
Wall	1071.33	0.081	86.56
Ceiling	1369.33	0.0285	39.03
Ext. Duct	78.50	0.242	18.98
Ext. Duct	78.50	0.223	17.48
Ext. Duct	78.50	0.206	16.14
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	251.4
Th. Zone 2	128.3
Th. Zone 3	0.0

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	257.27	0.063	OK	366.90
2	0	255.77	0.063	OK	365.40
3	-14	254.42	0.063	NG	364.10

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-23	5
-42	-8
-69	-28
-39	-6
-94	-44
-148	-83

10kW
 12kW
 15kW
 40k Gas
 60k Gas
 80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

3025 ZN 3

Model Number	3025	Drawing Number	3025
			Version 17

BOX SIZE: 26.33 ft. x 52 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	(2) R-11 OR / R-33 BIB	R-21	R-38
DAPIA PAGE	THP-3001	THP-560	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0371	0.0541	0.0285

THIS INSULATION COMBINATION COMPLIES WITH
ZONE 2 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	132.00	0.300	39.60
Option	0.00	0.300	0.00
Net: Floor	1369.33	0.037	50.80
Wall	1077.33	0.054	58.28
Ceiling	1369.33	0.0285	39.03
Ext. Duct	78.50	0.242	18.98
Ext. Duct	78.50	0.223	17.48
Ext. Duct	78.50	0.206	16.14
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	413.6
Th. Zone 2	303.9
Th. Zone 3	160.3

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
	1	11	217.48	0.053	OK
2	0	215.97	0.053	OK	325.60
3	-14	214.63	0.053	OK	324.30

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-34	-3	10kW
-55	-18	12kW
-86	-40	15kW
-52	-16	40k Gas
-113	-58	60k Gas
-175	-101	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

3025 ZN 3 WITH PATIO/ATRIUM DOOR

Model Number	3025	Drawing Number	3025	Version 17
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BOX SIZE: 26.33 ft. x 52 ft.

AVG. SIDEWALL HEIGHT = 8 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 0%

12 INCH DIAMETER XOVER DUCT AREA = 78.5 SQ.FT. MAX. WITH R-8 INSULATION

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	(2) R-11 OR / R-33 BIB	R-21	R-38
DAPIA PAGE	THP-3001	THP-560	THP-1484
U VALUE (BTUH/SQ.FT.-F)	0.0371	0.0541	0.0285

THIS INSULATION COMBINATION COMPLIES WITH ZONE 2 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Net:

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

	Area	U Value	UA
Doors: Front	22.00	0.210	4.62
Rear	43.00	0.280	12.04
Other Door	0.00	0.280	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	117.00	0.300	35.10
Option	0.00	0.300	0.00
Net: Floor	1369.33	0.037	50.80
Wall	1071.33	0.054	57.96
Ceiling	1369.33	0.0285	39.03
Th. Zone 1: Ext. Duct	78.50	0.242	18.98
Th. Zone 2: Ext. Duct	78.50	0.223	17.48
Th. Zone 3: Ext. Duct	78.50	0.206	16.14
Overhead TZ 1: Supply	0.00	0.000	0.00
Overhead TZ 2: Supply	0.00	0.000	0.00
Overhead TZ 3: Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	394.3
Th. Zone 2	284.6
Th. Zone 3	141.1

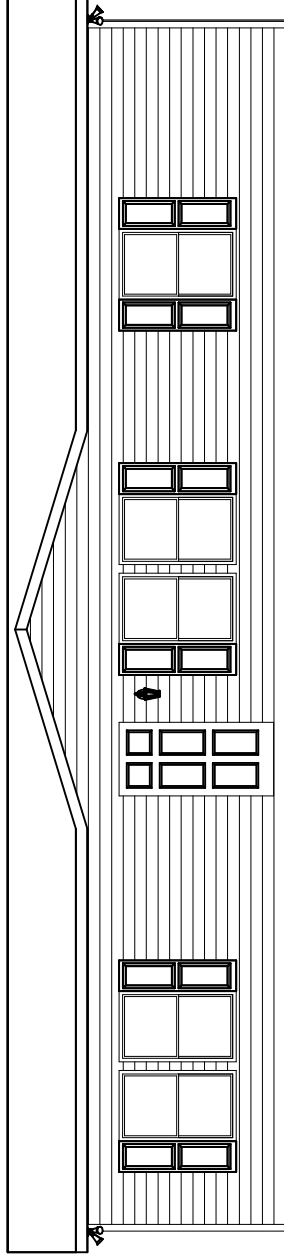
Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	218.53	0.054	OK	328.20
2	0	217.03	0.053	OK	326.70
3	-14	215.68	0.053	OK	325.30

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-34	-3
-55	-17
-86	-39
-52	-15
-113	-58
-174	-101

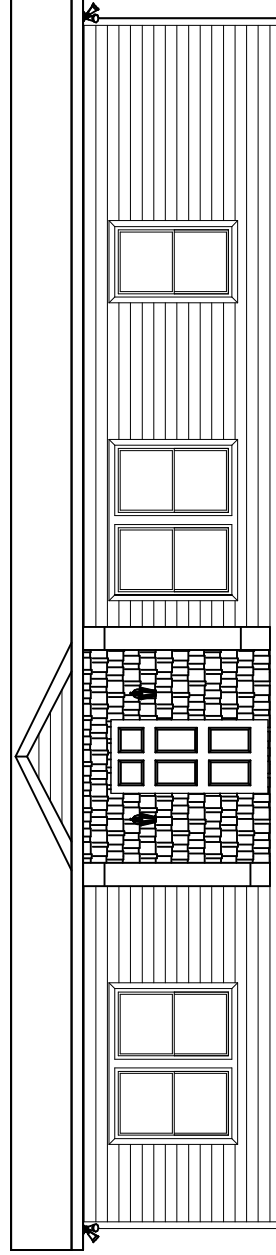
10kW
12kW
15kW
40k Gas
60k Gas
80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

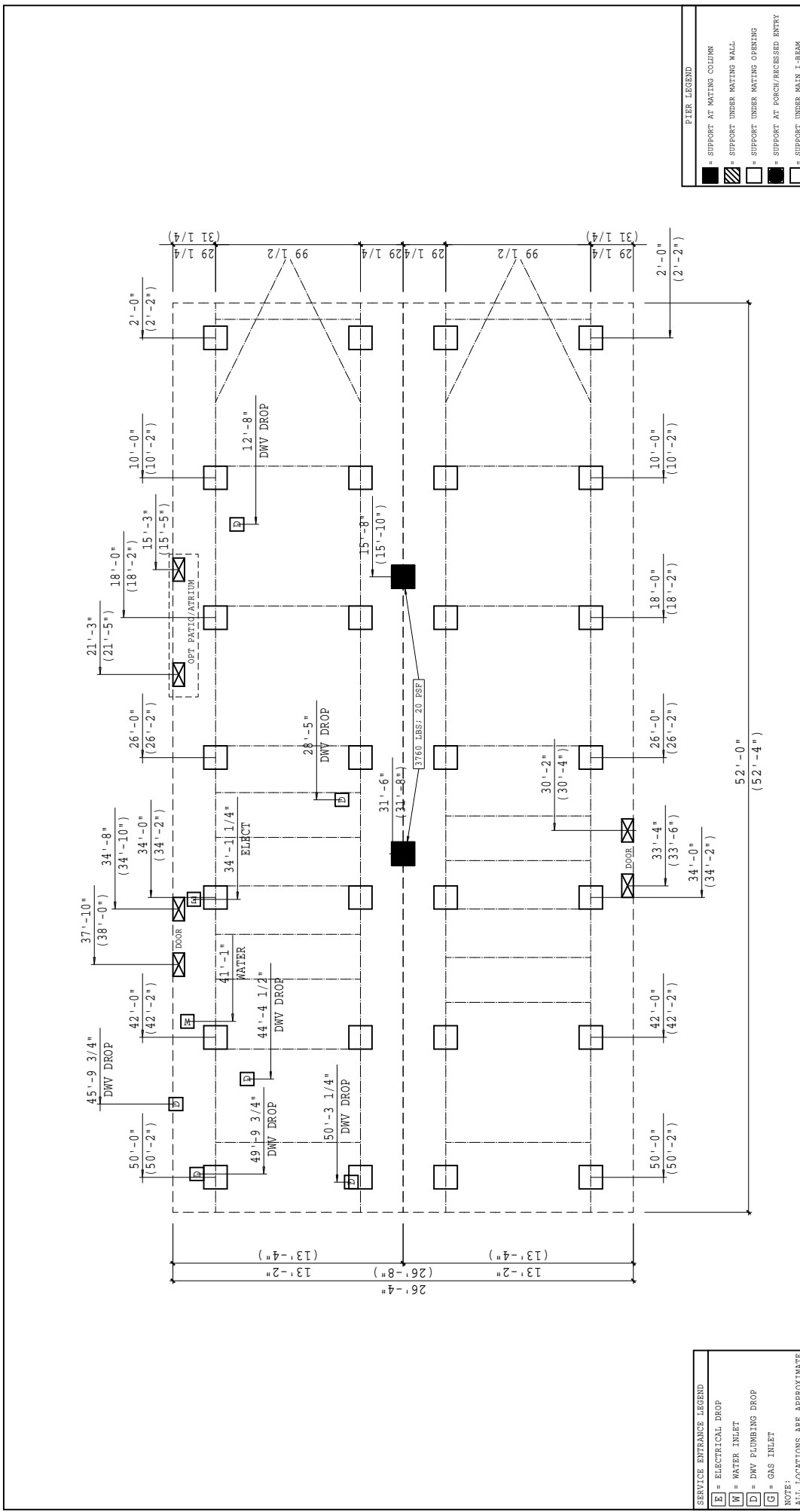


FRONT ELEVATION
16' DORMER OPTION



FRONT ELEVATION
10' DORMER OPTION

BRAND CLAYTON	SERIES FS28	REVISIONS		BY	DATE	GENERAL NOTES	DRAWING TITLE			MODEL NAME	3025	30. FT.	1369	
		EXTERIOR ELEVATION OPTION 3					PLANT	957	DESCRIPTION	28X52 3BR-2BA	MODEL NO.	3025		
HOME BUILDING GROUP		CLAYTON		HOME BUILDING GROUP		DRAWN BY		GDB	DATE	07/15/2024	DATE PRINTED	12/11/2024	SHEET NO.	20-5



SERVICE ENTRANCE LEGEND	
[E]	ELECTRICAL DROP
[W]	WATER INLET
[D]	DWV PLUMBING DROP
[G]	GAS INLET

PIER LEGEND	
[■]	SUPPORT AT MATING COLLAR
[▨]	SUPPORT UNDER MATING WALL
[□]	SUPPORT UNDER MATING OPENING
[■]	SUPPORT AT PORCH/ACCESSORY ENTRY
[□]	SUPPORT UNDER MAIN I-BEAM
[▨]	SUPPORT UNDER PERIMETER WALL
[■]	SUPPORT AT CROSS I-BEAM BASMENT

NOTE: THE FOUNDATION WITH SHOWN 24" IS IDENTICAL TO THE OVERALL FLOOR WIDTH OF THE ROOM. THE FOUNDATION MAY BE CONSTRUCTED UP TO 1 1/2" WIDER TO COMPENSATE FOR PRODUCTION AND ASSEMBLY TOLERANCE.

NOTE: ALL LOCATIONS ARE APPROXIMATE

COMESPACE VENTILATION 144 SQ. IN. OF VENT FOR EVERY 300 SQ. FT. VENT MUST BE WITHIN 3 FT. OF EACH CORNER

COMESPACE AREA WITH APPROVED VAPOR BARRIER MATERIAL. ONE SUCH VENT MUST BE WITHIN 3 FT. OF EACH CORNER

1349 SQ. FT. OF COMESPACE AREA
 144 SQ. IN. OF VENT FOR EVERY 300 SQ. FT.
 11 VENTS REQUIRED @ 51 SQ. IN. EACH
 574 SQ. IN. VENTILATION INSTALLED MINIMUM

REVISIONS	BY	DATE

FOOTING SIZES VARY BASED ON SOIL BEARING CAPACITY AND PER LOADS REFER TO INSTALLATION MANUAL FOR PROPER FOOTING SIZING

|| - DIMENSIONS DENOTES 246 WALLS OPTION

GENERAL NOTES

DRAMAING TITLE
PIER SET
99 1/2 BEAM SPACING

MODEL NAME	3025	3025	30 FT.
PLANT	957	DESCRIPTION	1369
DRAWN BY	GDB	DATE PRINTED	3025
DATE	07/15/2024	DATE PRINTED	12/11/2024
			21-PS-99

CLAYTON	FS28
CLAYTON	CLAYTON
HOME BUILDING GROUP	HOME BUILDING GROUP