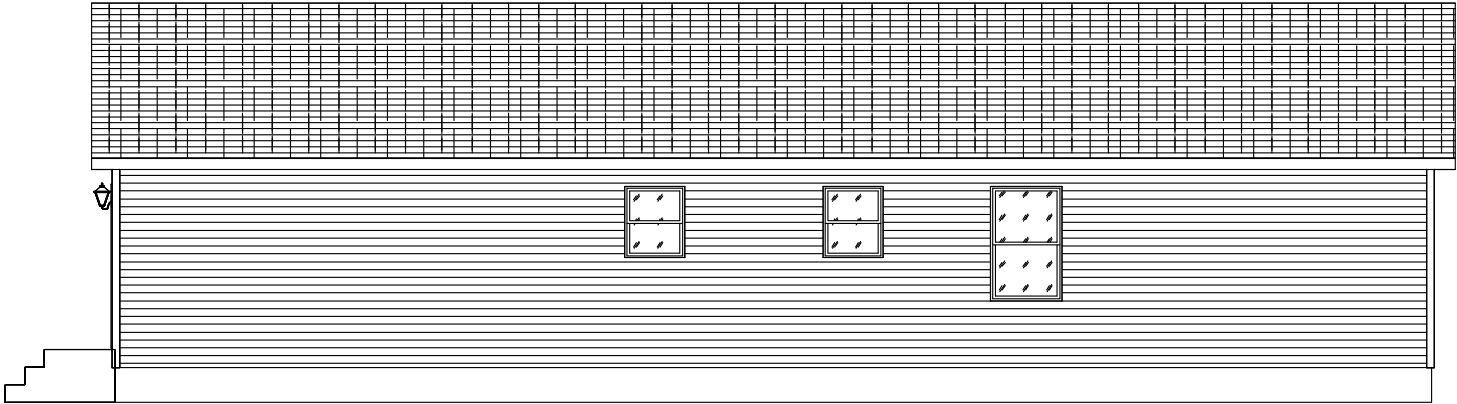


ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.

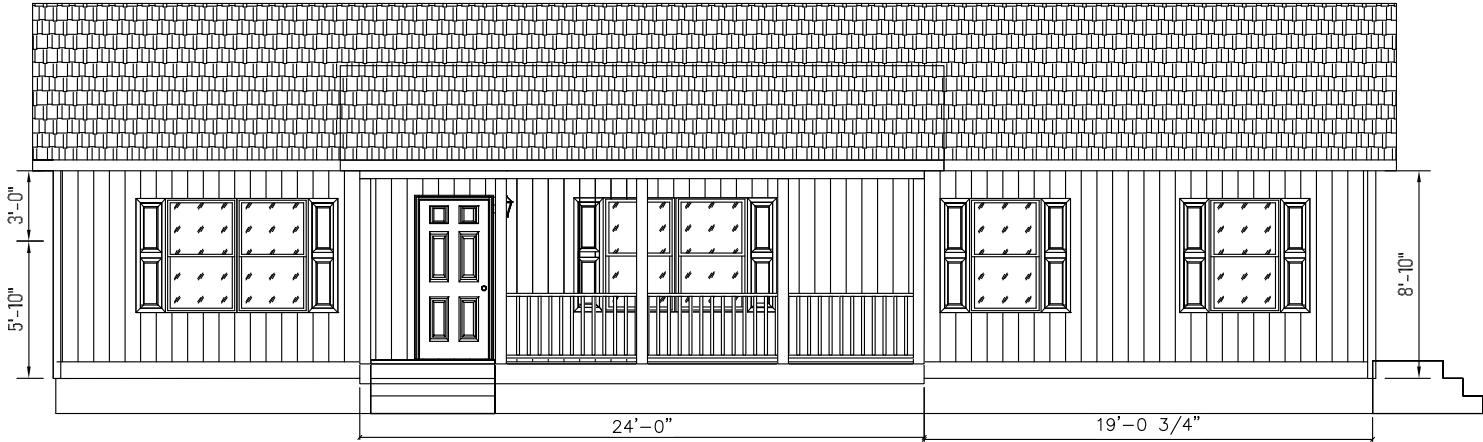
Note: Window fall protection must be provided on-site where required in accordance with applicable code.

NOTE:
HOMES WITH ATTIC SPACE QUALIFYING AS HABITABLE, MUST BE EQUIPPED WITH EMERGENCY ESCAPE AND RESCUE OPENINGS REGARDLESS OF WHETHER ATTIC AREA IS FINISHED OR UNFINISHED. OPENINGS MAY OCCUR AT END WALL OF ATTIC AND/OR AT ROOF DORMERS IN WHATEVER ARRANGEMENT NECESSARY TO INSURE THAT ANY SLEEPING ROOM HAS AT LEAST ONE EGRESS OPENING.



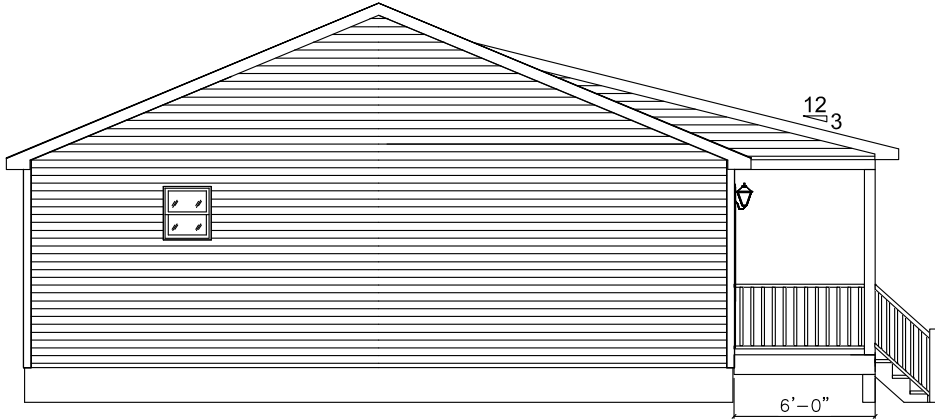
REAR VIEW

1/8" = 1'-0"



FRONT VIEW

1/8" = 1'-0"



LEFT VIEW

1/8" = 1'-0"



RIGHT VIEW

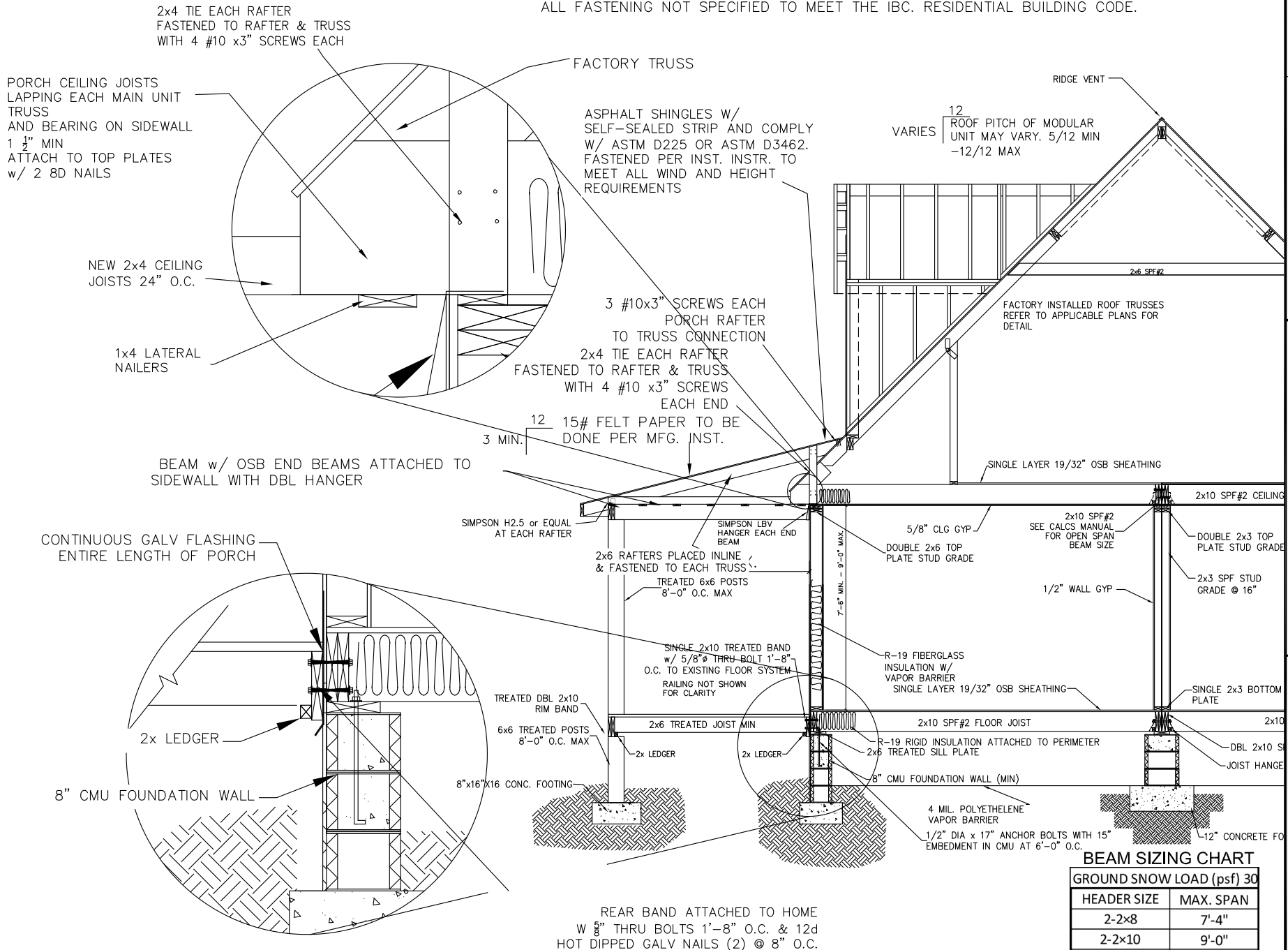
1/8" = 1'-0"

-NOTES-

1. FOUNDATION SHALL BE DESIGNED AND CONSTRUCTED BY OTHERS WHERE "OTHERS" REFERS TO THE DEALER BUILDER.
2. GUTTERS AND LEADERS SHALL BE INSTALLED BY OTHERS.
3. TYPICAL 12" OR 15" VINYL SHUTTERS PROVIDED BY MANUFACTURERS.
4. ALL FOOTINGS, RAILINGS AND STEPS SHALL BE FIELD INSTALLED IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL CODES.
5. SIDING SHALL BE VINYL SIDING WITH VINYL TRIM, AND MAY BE PARTIALLY INSTALLED ON SITE.
6. EXTERIOR LIGHTS MAY BE SHIPPED LOOSE FOR INSTALLATION ON SITE.
7. ROOFING SHINGLES MAY BE PARTIALLY SITE INSTALLED.
8. PORCH RAILINGS ARE PVC. TREATED LUMBER PORCH POSTS MAY BE COVERED WITH VINYL. PORCH DECKING SHALL BE TREATED.
9. ALL EXTERIOR COVERINGS SHALL BE WEATHER AND DECAY RESISTIVE TO PROVIDE PROPER PROTECTION FOR UNTREATED MATERIALS.

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: N.T.S.	Date: 08/26/2025	Cust: HASH	Prod. Code:	Number:	Order/Plan Number:
					Dlr: HBV	B9	32563B	2025-1037091
Title: Elevations		Drawn By: BD	Reference: 1BL1013-V	S/N: .	Pg.: EL			Run: .

ALL SITE CONSTRUCTION TO MEET 2018 ED. OF THE IBC RESIDENTIAL BUILDING CODE, SUBJECT TO LOCAL JURISDICTION INSPECTION AND APPROVAL.
ALL FASTENING NOT SPECIFIED TO MEET THE IBC. RESIDENTIAL BUILDING CODE.



BEAM SIZING CHART

GROUND SNOW LOAD (psf) 30

HEADER SIZE	MAX. SPAN
2-2x8	7'-4"
2-2x10	9'-0"
3-2x8	9'-3"
3-2x10	11'-4"

VALUES DERIVED FROM TABLE R502.5(1) NCRS
INTERPOLATED TO 16' BUILDING WIDTH.

HOMES BY VANDERBUILT

3300 JEFFERSON DAVIS HWY
SANFORD, NC 27332
PHONE: (919) 718-2760
FAX: (919) 718-2799

SHED PORCH DETAIL

DATE: 7/08/08 BY: BRB NOTE:
REVISION: CRTD

CUSTOMER: VARIOUS
CITY: NC
COUNTY: NC
WIND SPEED: 110
WIND LOAD: 32.4
SNOW LOAD: 20
CUST. NO.:
DRAWING NAME:

T:\MISCELLANEOUS\SHED PORCH 2012.DWG

DESIGN APPLICABLE FOR UNITS UP TO 130 MPH, EXP. C.

Footing size (in.)	Footing max. load (lbs.) for 8" x16" pier		
	1500 PSF	2000 PSF	2500 PSF
*16x16x6	2.5K	3.4K	4.3K
*20x20x6	4.0K	5.3K	6.7K
24x24x8	5.6K	7.6K	9.6K
30x30x10	8.5K	11.7K	14.8K
36x36x12	12.4K	16.7K	20.7K
42x42x14	16.5K	22.4K	28.2K
48x48x14	21.2K	N/A	N/A
* = A 4" thick pre-cast footer of equivalent width and length may be used in place of a 6" thick cast in place footer.			
Footer size must be designed by others to site conditions if noted kip load exceeds capacities listed above			

COLUMNS & FOOTINGS
MUST BE RATED TO
MEET THE CENTER
LINE LOADS LISTED

GROUND SNOW LOAD

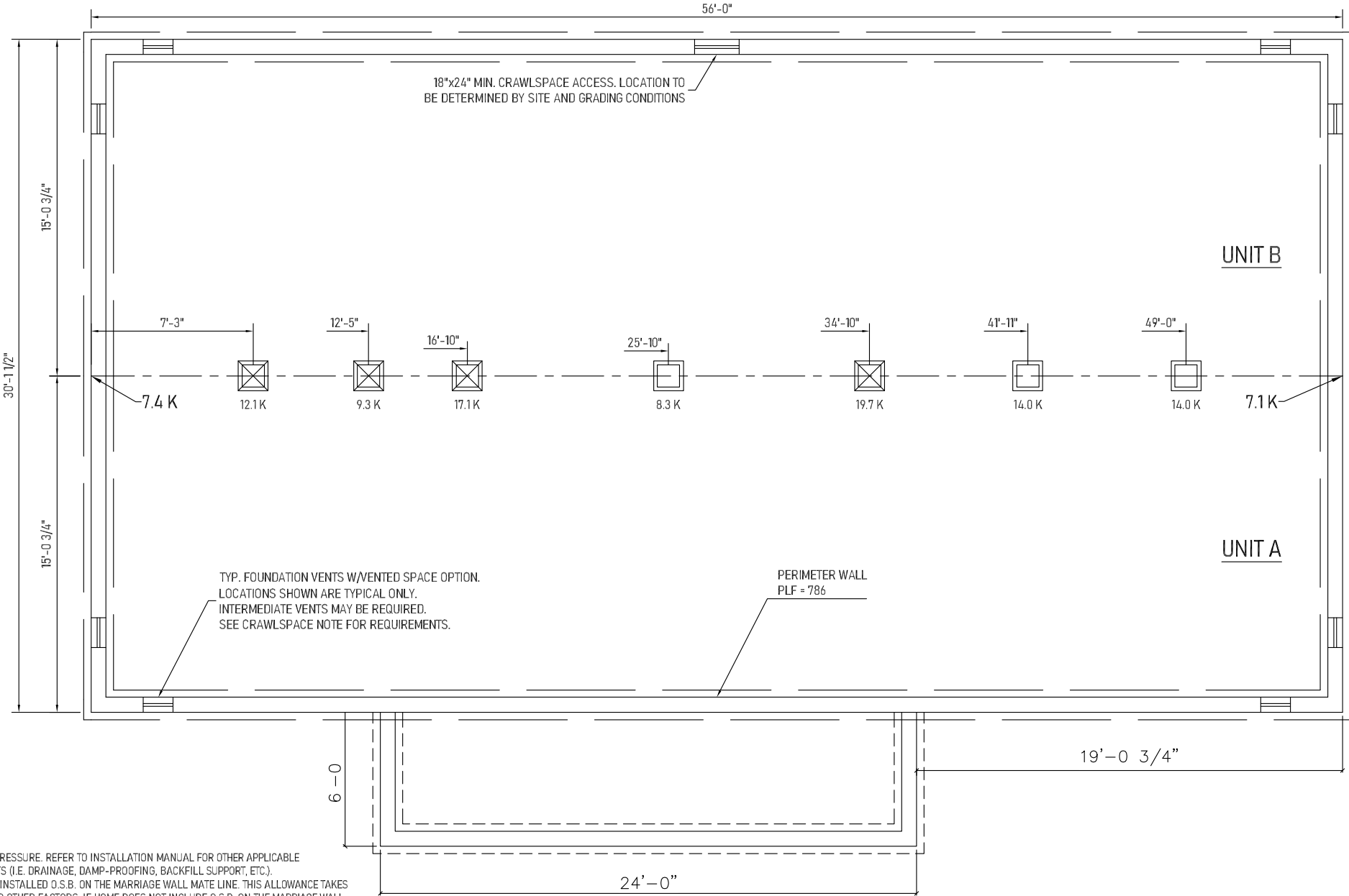
20
PSF

Kip loads noted are based on allowable stress design (ASD).
Capacity of supports (columns, footings, etc.) must exceed noted Kip loads.
Any changes to this plan that effect the foundation in any way will be the sole responsibility of the builder/dealer.

SELF-WEIGHT ON FOOTERS NOT INCLUDED IN LOADS SHOWN.
♦ IF APPLICABLE, REPRESENTS TIE DOWN LOADS FROM BRACE WALLS
TO FOUNDATION. TO BE DESIGNED ON SITE BY OTHERS.

FOR CONNECTION OF THE HOME TO FOUNDATION AT BRACING WALLS, REFER TO "BRACED WALLS-CALCULATED" PAGE, IF APPLICABLE. WHEN THIS PAGE IS PRESENT, HORIZONTAL AND OVERTURNING (RACKING) LOADS AT BRACING WALL LOCATIONS ARE INDICATED FOR THESE FOUNDATION CONNECTIONS. THESE LOADS MAY BE RECALCULATED AND REDESIGNED PER LOCAL CODES TO CONFORM TO SITE CONDITIONS AS REQUIRED. REFER TO CHAPTER 3 (3.9 TIE DOWN TO FOUNDATION) OF THE "MODULAR HOME INSTALLATION MANUAL" FOR ADDITIONAL INFORMATION. REFER TO APPLICABLE CODES FOR CONNECTION OF HOME TO FOUNDATION WHEN "BRACED WALLS-PRESCRIPTIVE" PAGE IS APPLICABLE.

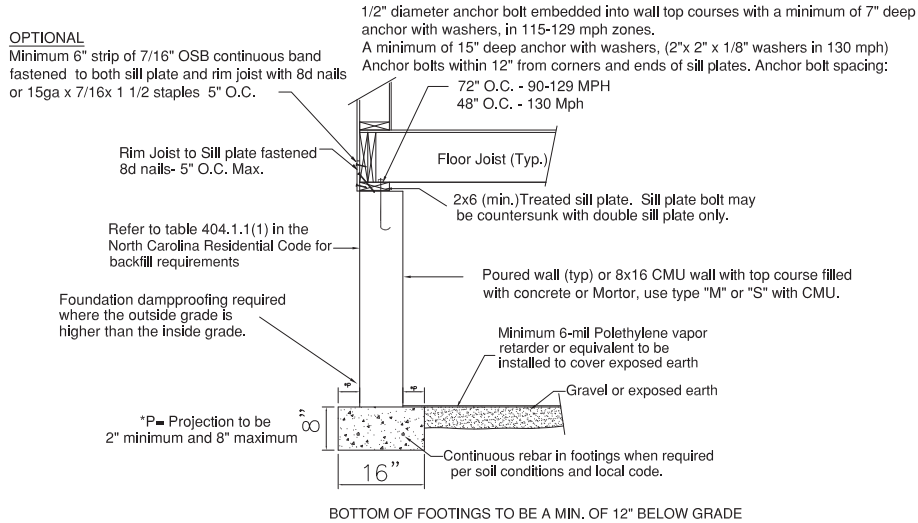
FOUNDATION SHOWN MUST BE DESIGNED BY OTHERS TO THE SITE CONDITIONS. THIS INCLUDES SEISMIC DESIGN AND ATTACHING THE HOME TO THE FOUNDATION, ALONG WITH RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNLIFT FORCES IN BOTH DIRECTIONS.



- 2X10 OR TRUSS FLOOR NOTES -
- FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
 - WIDTH DIMENSIONS SHOWN INCLUDE A 3/4" ALLOWANCE PER HOME SECTION FOR HOMES WITH FACTORY-INSTALLED O.S.B. ON THE MARRIAGE WALL MATE LINE. THIS ALLOWANCE TAKES INTO ACCOUNT THE 7/16" O.S.B. MATERIAL INSTALLED ON EACH MARRIAGE WALL PLUS ALLOWANCE DUE TO OTHER FACTORS. IF HOME DOES NOT INCLUDE O.S.B. ON THE MARRIAGE WALL MATE LINE, FOUNDATION WIDTH IS TO BE SIZED EQUAL TO ACTUAL MANUFACTURED FLOOR WIDTH. LESSER DIMENSION, IF SHOWN, INDICATES ACTUAL FLOOR WIDTH. THESE DIMENSIONS DO NOT ALLOW FOR ANY VARIANCE THAT MAY OCCUR IN SITE INSTALLATION SUCH AS GAPPING, OFF CENTER SET OR OTHER FIELD-ENCOUNTERED VARIABLES. ANY ADJUSTMENTS NEEDED IN FOUNDATION WIDTH DUE TO SUCH VARIANCES ARE AT THE DISCRETION OF THE INSTALLER.
 - FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
 - SILL PLATE FASTENING TO BE PER INSTALLATION MANUAL AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE YOUR HOME DATA PLATE FOR APPLICABLE ZONES.
 - CONCRETE COMPRESSIVE STRENGTH (FC): 2500 PSI MINIMUM.
 - CENTERLINE LINE SUPPORTS AND SPACING ARE BASED ON (2) 2X10's SPF#2 ON EACH HALF (4-2X10'S TOTAL).
 - CRAWLSPACE VENTILATION IS NOT REQUIRED WHEN INSULATION IS APPLIED TO CRAWLSPACE WALLS AS REQUIRED BY RESCHECK (CONDITIONED AIR). INSTALLATION OF VENTS IN CRAWLSPACE WALLS WOULD MANDATE INSULATING THE FLOOR SYSTEM PER APPLICABLE THERMAL CALCULATIONS. REFER TO APPLICABLE PRESCRIPTIVE CODES & GUIDELINES. WHEN REQUIRED, ONE VENT SHALL BE PROVIDED WITHIN 3 FEET OF EACH CORNER.
 - FOUNDATION CONSTRUCTION AND TIE DOWN REQUIREMENTS FOR HOMES LOCATED IN 90 MPH OR LESS WIND ZONES MAY USE APPLICABLE PRESCRIPTIVE CODES & GUIDELINES UNLESS NOTED OTHERWISE.

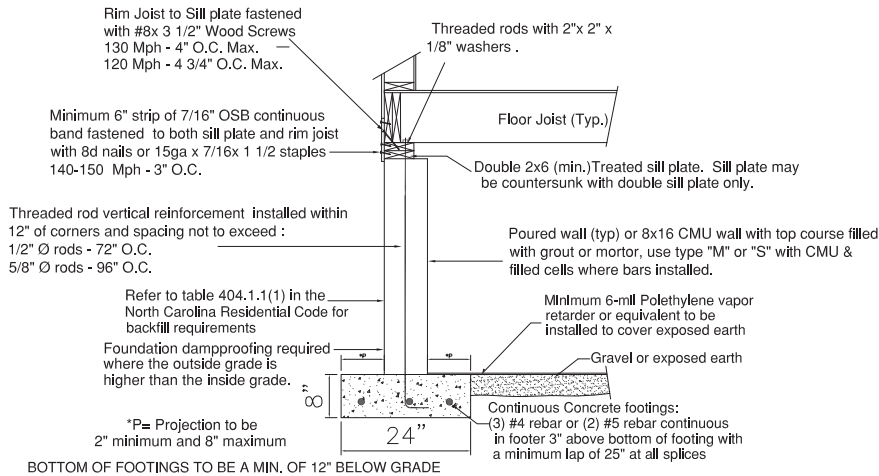
Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 3/16" = 1'-0"	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091
		Drawn By: BD	Reference: 1BL1013-V		Dir: HBV S/N: .	Pg.: FD20#		Run: .

N.C. Foundation Cross Section- 90 to 130 Mph 1-1/2, 2, OR 2-1/2 STORY



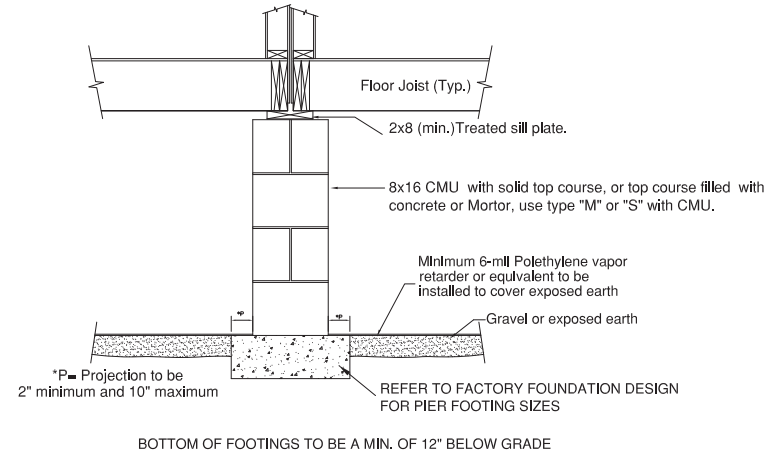
Applicable to Seismic Zone C with minimum soil bearing capacity of 1500 PSF. Concrete 2500-PSI min. Wind speed up to 130 Mph Exp. C. Refer to Chapter 4 in the North Carolina Residential Code for specific foundation application or CMU Construction. Refer to the wind bracing pages for additional tie down and braced wall requirements.

N.C. High Wind Foundation Cross Section- 140 to 150 Mph 1-1/2, 2, OR 2-1/2 STORY



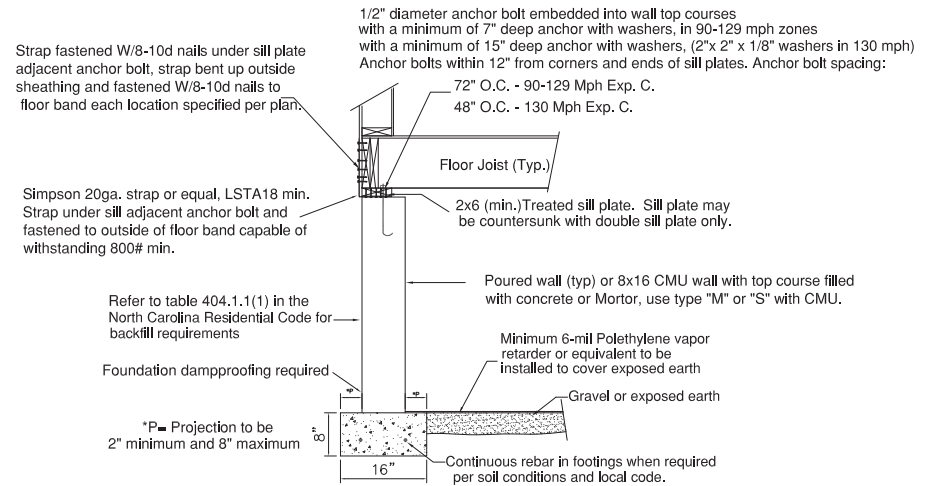
Applicable to Seismic Zone C, D0, D1 with minimum soil bearing capacity of 2500 PSF. Concrete-2500 PSI min. Wind speed up to 130 Mph maximum. Refer to wind bracing pages for additional tie down requirements at braced wall locations. Refer to Chapters 4 & 45 in the North Carolina Residential Code for specific foundation application or CMU Construction. REFER TO FIGURE R4504.2(B) FOUNDATION WALL WITH UPLIFT ANCHOR BOLTS FROM FOOTING TO SILL PLATE

N.C. Pier Cross Section- All Zones- UP TO 3 STORIES



R404.1.5.4 Piers.
The unsupported height of masonry piers shall not exceed 10 times their least dimension. When structural clay tile or hollow concrete masonry units are used for isolated piers to support beams and girders, the cellular spaces shall be filled solidly with concrete or Type M or S mortar, except that unfilled hollow piers may be used if their unsupported height is not more than four times their least dimension. When hollow masonry units are solidly filled with concrete or Type M or S mortar, the allowable compressive stress may be increased as provided in Table 606.9.

N.C. 800# HOLD DOWN STRAP DEVICE



Applicable to Seismic Zone C with minimum soil bearing capacity of 2500 PSF. Concrete 2500-PSI min. Wind speed up to 110 Mph Exp. C. Refer to Chapter 4 in the North Carolina Residential Code for specific foundation application or CMU Construction. Refer to the wind bracing pages for additional tie down and braced wall requirements.

CUSTOMER	CITY	ALL HOMES	COUNTY	ALL	
DATE:	11/18/18	REVISION:	BY:	NOTE:	
1/30/19	2018 CODE UPDATES				
WIND SPEED	110	WIND LOAD	150	SNOW LOAD	20
CUST. NO.		DRAWING NAME			
FRANC. WALL		PIER DETAILS	2021.DWG		

HOMES BY VANDERBUILT
3300 JEFFERSON DAVIS HWY
SANFORD, NC 27332
PHONE: (919) 718-2760
FAX: (919) 718-2799

HOMES BY VANDERBUILT

September 2, 2025

Mr. Shane Phelps
State of North Carolina
Department of Insurance
Manufactured Building Division
322 Chapanoke Road
Suite 200
Raleigh, NC 27603

RE : Cavco-Crouse
Model: 2025-1037091-NC

Dear Mr. Phelps,

Enclosed, you will find one (1) copy of the above mentioned project for your files.

Should you have any questions or comments, please contact me at your earliest convenience.

Sincerely,

Joe Shultz

Joe Shultz
Account Manager
ICC NTA, LLC

Enclosures



A MEMBER OF THE ICC FAMILY OF SOLUTIONS

Adopted Codes: State of North Carolina

- 2018 North Carolina Residential Code
- 2017 North Carolina Electrical Code (2017 NEC)
- 2018 North Carolina Energy Conservation Code
- 2018 North Carolina Mechanical Code
- 2018 North Carolina Plumbing Code
- 2018 North Carolina Fuel Gas Code

Project Location:

TBD Hicks Rd
Broadway NC 27505
HARNETT County

Occupancy:

Occupancy:IRC - Single Family Dwelling
Construction Type:5B (Wood Frame - Unprotected)
Number of Stories:One Story Ranch

Design Load:

Floor Area:1680 Sq.Ft.

Floor Live Load:40 psf

Ground Snow Load:20 psf

Floor Dead Load:10 psf

Top Chord Dead Load:10 psf

Bottom Chord Live Load: See Truss Diagram

Ultimate Wind Speed: 120 mph

Wind Exposure Category:B

Seismic Design Category: ...B

IECC Geographical Code:4A

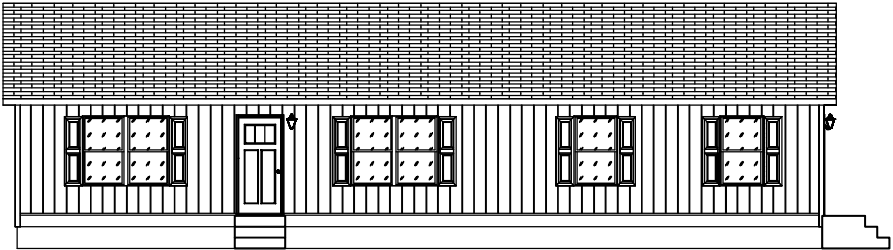
Insulation

Reference RESCheck for Requirements.

Attention Local Inspection Departments:

- Set-up instructions for this modular unit are included by attachment to these plans. Any plans set that does not include an attachment entitled "MODULAR HOME INSTALLATION MANUAL" is incomplete.
- The following items are not completed by the home manufacturer, are not inspected by in-factory third party inspectors, and are not certified by the modular compliance label: (A) Components or connections for heating or air conditioning systems which are NOT part of the factory installation. (B) Below floor ducts. (C) Electrical service disconnect. (D) Foundation designs and attachments. In order to verify that all required systems connections are complete, refer to the "Inspection Check Sheet" in the manufacturer's modular home installation manual. Regardless of factory or site installation, the furnace, water heater, and all elements of heating system must be per applicable codes, (refer to ResCheck if applicable). (E) Furnace omitted, room to-room jumpers on-site by builder.
- Site installed furnace must meet IECC Energy Efficiency Certificate if applicable.
- This unit must be connected to a public water supply and sewer system if these are available.
- If this structure is in a thermal zone more stringent than that listed on these plans, is set on pilings, or is installed at a mountain region or coastal high hazard site such that wind or other design parameters are increased, the design must be determined to be adequate for actual site conditions. Alterations may be required to bring the home into compliance with the more stringent conditions.**
- Soffit materials for this unit assume that the building face will be 10 feet or greater from the property line when installed on site. Where the building face is less than 10 feet from the property line, underlayment materials and ventilation in accordance with **Section R302.1.1, NC Residential Code**, must be provided and installed at the site and inspected by the local jurisdiction.
- If after installation of this home, the lowest part of the clear opening of any window is more than 72" above the finished grade, guards will be required to be installed onsite in accordance with **Section R312**; subject to local inspection.
- Partial plumbing installation (stubbed in) requires full DWV testing in field. Testing of factory portion of DWV is not required unless partial testing is mandated by code.
- Smoke detectors required by code that are not shown on the plan will be site installed by others and are subject to inspection by the authority having jurisdiction.
- Where required, window protection designed and provided on site by others to meet applicable local codes.

Plan: 2025-1037091
Customer: HASH
Builder: HBV
Manufacturer:
530 Cavco-Crouse
235 Anthony Grove Rd.
Crouse, NC 28033



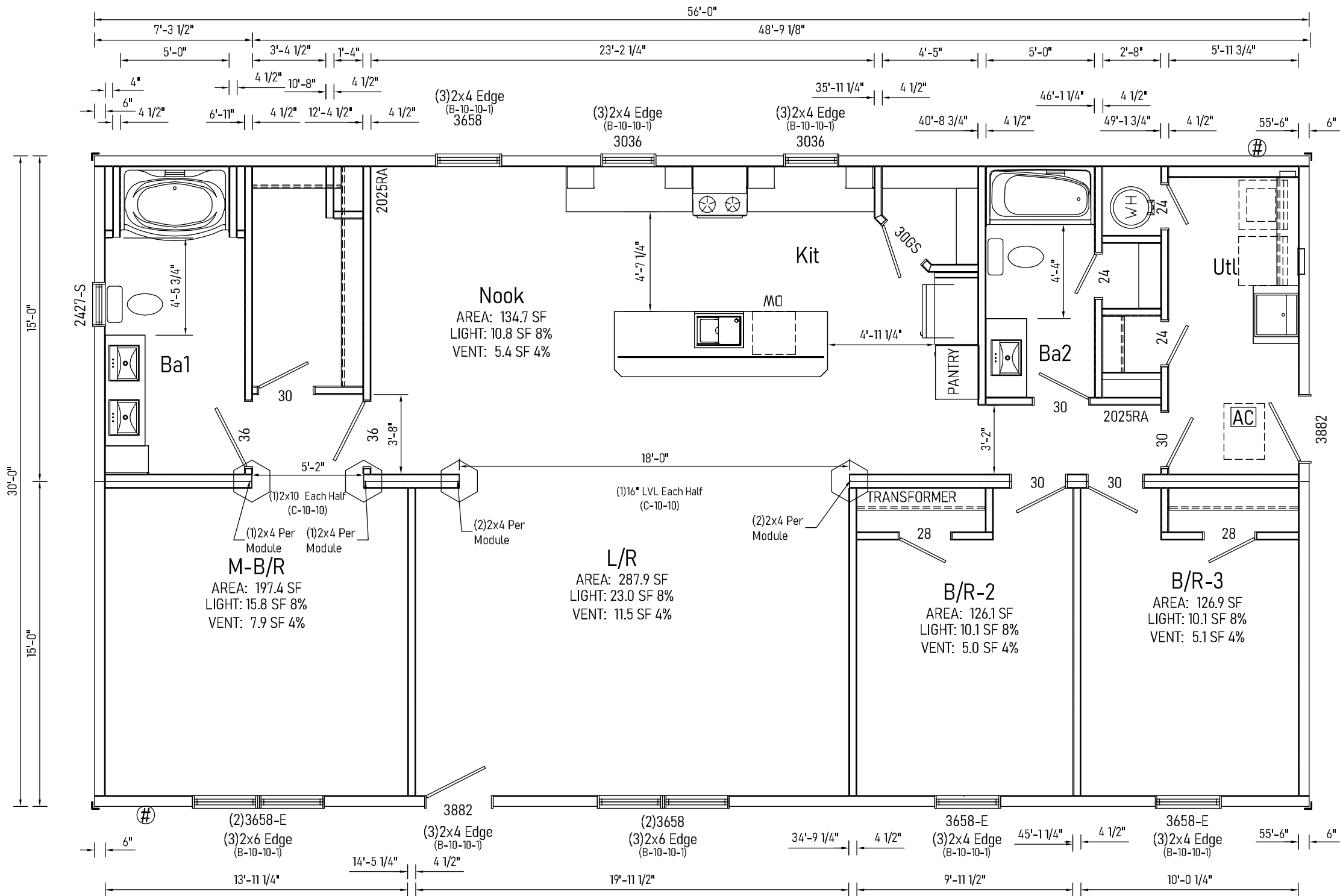
Drawing Index

Title	Page
Cover	CV
Floor Plan	FP
Electrical Plan	EP
Schedules and General Notes	NG
Elevations	EL
Cross Section	XS
Hot Water Lines	WH
Cold Water Lines	WC
DWV System	DL
DWV Notes	DN
Supply Air Ducts - Perimeter Registers	SP
Braced Walls-Prescriptive	BWP
Foundation 2x10 Marriage Line without Stair	FD20#
Manual J Calculations	ATTACHED
Truss Diagram	ATTACHED
2018 NC Compliance	ATTACHED
2018 NC Building Summary	ATTACHED

APPROVED BY
NIA 9/2/2025
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
Joe Shultz

Note: Window fall protection must be provided on-site where required in accordance with applicable code.

Note:
* LVLs noted must extend past column on at least one end 24" minimum and be overlayed with OSB sheathing.



APPROVED BY
NIA
9/2/2025
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
Joe Shultz

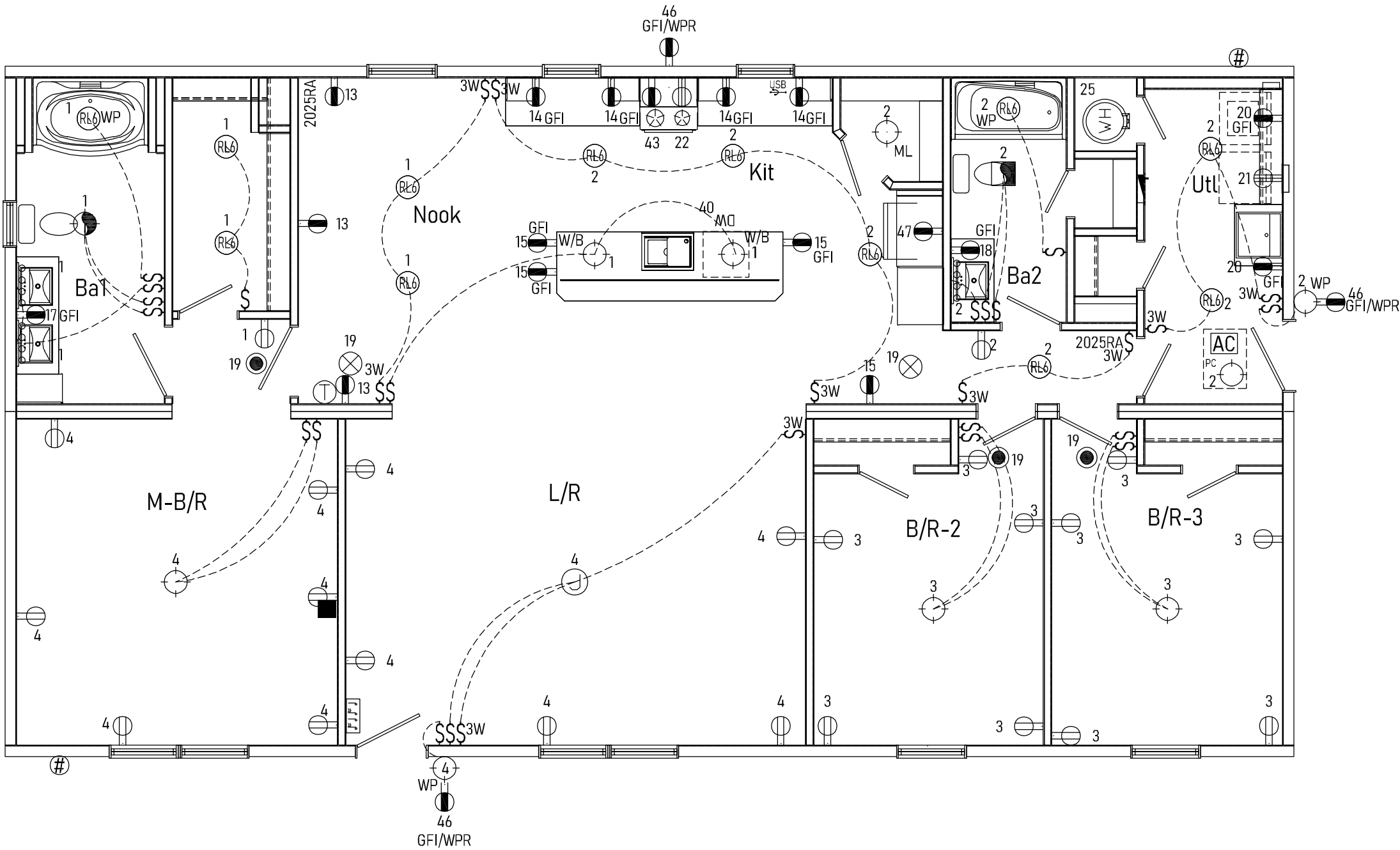
- Notes:
- Exterior opening headers and jack studs are SPF #2 unless otherwise noted.
 - Sidewall headers may use alternate construction per section B-10 of Systems Manual.
 - LVL's where specified to be minimum of 1 1/2" wide, M.O.E. = 2.0 and fb = 2900 PSI.
 - See C-10-45 for stair opening framing.
 - See C-10-105 for dormer opening framing.

See Schedules and General Notes Page
= Column Support Location
= Attic Access
Builder: 530 Cavco-Crouse
Title: Floor Plan

Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 3/16" = 1'-0"	Date: 08/26/2025	Cust: HASH	Prod. Code:	Number:	Order/Plan Number:
	Drawn By: BD	Reference: 1BL1013-V		Dir: HBV	B9	32563B	2025-1037091
					Pg.: FP	Run:	

530B932563B2025-1037091

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9/2/2025
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








See Schedules and General Notes Page

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 3/16" = 1'-0"	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091	
		Drawn By: BD	Reference: 1BL1013-V		Dir: HBV	Pg.: EP		Run:	

Title: Electrical Plan

5306932563B2025-1037091

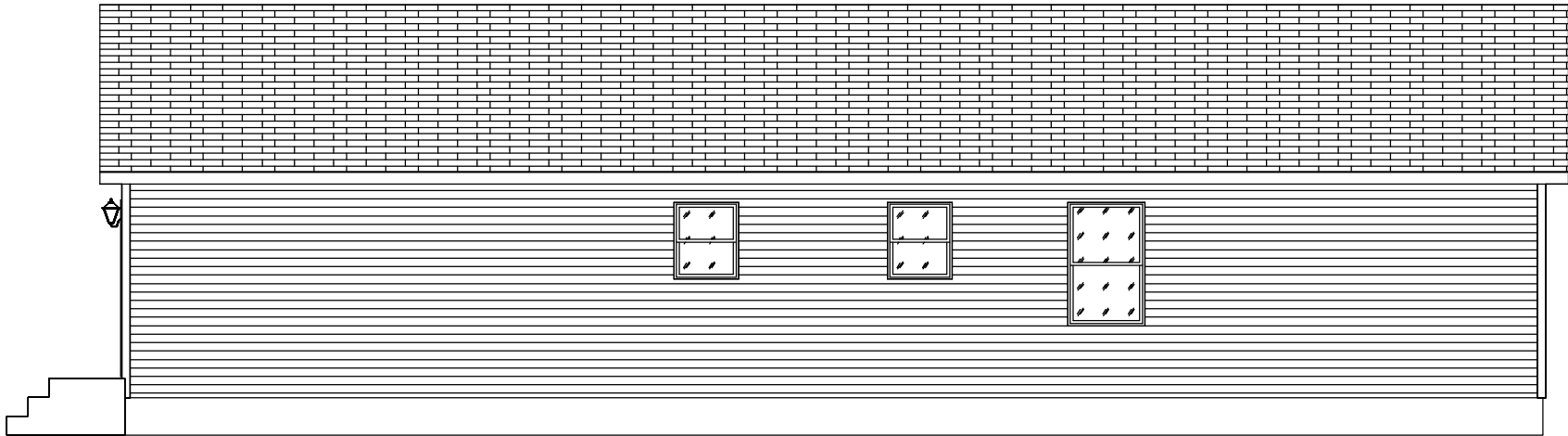
Optional Method Load Calculation for One-Family Dwellings				Model # 2025-1037091	
1 General Lighting and Receptacle Loads 220.82(B)(1) <i>Do not include open porches, garages, or unused or unfinished spaces not adaptable for future use.</i>		3 x $\frac{1680}{\text{ft}^2 \text{ using outside dimensions}}$ =		1	5040
2 Small-Appliance Branch Circuits 220.82(B)(2) <i>At least two small-appliance branch circuits must be included. 210.11(C)(1)</i>		1500 x $\frac{3}{\text{(minimum of two)}}$ =		2	4500
3 Laundry Branch Circuits(s) 220.82(B)(2) <i>At least one laundry branch circuit must be included. 210.11(C)(2)</i>		1500 x $\frac{1}{\text{(minimum of one)}}$ =		3	1500
4 Appliances 220.82(B)(3) and (4) <i>Use the nameplate rating of all appliances (fastened in place, permanently connected, or connected to a specific circuit), ranges, ovens, cooktops, motors, and clothes dryers. Convert any nameplate rating given in amperes to volt-amperes by multiplying the amperes by the rated voltage.</i>		<i>Do NOT include any heating or A/C equipment in this section.</i> Total volt-amps of all app. LISTED BLEOW		4	32200
5 Apply 220.82(B) demand factor to the total of lines 1 through 4. $43240 - 10,000 = 33240 \times 40\% = 13296 + 10,000 = 23296$ (total of lines 1-4)					
6 Heating or Air-Conditioning System 220.82(C). <i>Use the nameplate ratings in volt-amperes for all applicable systems in lines a through e.</i>		c) Supplemental electric heating equipment for heat-pump systems. Include the heat-pump compressor(s) at 100%. <i>If the heat-pump compressor is prevented from operating with the supplemental heat, omit the compressor.</i>			
a) Air-conditioning and cooling systems, including heat pumps without any supplemental electric heating: $6000 \times 100\% = \text{a)}$ 6000		0	x 65 % =	c)	0
b) Electric thermal storage & other heating systems where the usual load is expected to be continuous at full nameplate value. <i>Systems qualifying under this selection shall not be figured under any other selection in 220.82(C).</i> 0 x 100 % = b) 0		d) Electric space-heating equipment, if fewer than four separately controlled units: $20000 \times 65\% = \text{d)}$ 13000			
7 Total Volt-Ampere Demand Load: $\frac{13000}{\text{(Largest VA rating, 6a -6e)}} + \frac{23296}{\text{(Line 5)}} = \text{7}$ 36296		e) Electric space-heating equipment, if four or more separately controlled units: 0 x 40 % = e) 0			
8 Minimum Amperes <i>Divide the total volt-amperes by voltage.</i> $\frac{36296}{\text{(line 7)}} \div \frac{240}{\text{(voltage)}} = \frac{152}{\text{(min. amperes)}}$		9	Minimum Size Service or Feeder 240.6(A)	200 Amps Installed	
10 Size the Service or Feeder Conductors. <i>Use 310.15(B)(6) to find the service conduct up to 400 amperes. Ratings in excess of 400 amperes shall comply w/ Table 310.16. 310.15(B)(6) also applies to feeder conductors serving as the main power feeder.</i>		10	Minimum Size Conductors	2/0 Copper OR 4/0 Aluminum	

LEGEND			
 =15 AMP RECEPT	 =15 AMP FLOOR RECPT	 =20 AMP RECEPT	 =20 AMP FLOOR RECPT
 =SWITCHED RECEPT	 =220 VOLT RECEPT	WPR = WEATHERPROOF ENCLOSURE WITH WEATHE RESISTANT RECEPT	
 =STD LIGHT	 =RECESSED LIGHT	 =RECESSED 4\" data-bbox="436 128 450 148"/> =RECESSED 6\" data-bbox="455 128 469 148"/> =RECESSED 6\" data-bbox="474 128 488 148"/> =RECESSED 6\" data-bbox="493 128 507 148"/> =RECESSED 6\" data-bbox="512 128 526 148"/> =RECESSED 6\" data-bbox="531 128 545 148"/> =RECESSED 6\" data-bbox="550 128 564 148"/> =RECESSED 6\" data-bbox="569 128 583 148"/> =RECESSED 6\" data-bbox="588 128 602 148"/> =RECESSED 6\" data-bbox="607 128 621 148"/> =RECESSED 6\" data-bbox="626 128 640 148"/> =RECESSED 6\" data-bbox="645 128 659 148"/> =RECESSED 6\" data-bbox="664 128 678 148"/> =RECESSED 6\" data-bbox="683 128 697 148"/> =RECESSED 6\" data-bbox="702 128 716 148"/> =RECESSED 6\" data-bbox="721 128 735 148"/> =RECESSED 6\" data-bbox="740 128 754 148"/> =RECESSED 6\" data-bbox="759 128 773 148"/> =RECESSED 6\" data-bbox="778 128 792 148"/> =RECESSED 6\" data-bbox="797 128 811 148"/> =RECESSED 6\" data-bbox="816 128 830 148"/> =RECESSED 6\" data-bbox="835 128 849 148"/> =RECESSED 6\" data-bbox="854 128 868 148"/> =RECESSED 6\" data-bbox="873 128 887 148"/> =RECESSED 6\" data-bbox="892 128 906 148"/> =RECESSED 6\" data-bbox="911 128 925 148"/> =RECESSED 6\" data-bbox="930 128 944 148"/> =RECESSED 6\" data-bbox="949 128 963 148"/> =RECESSED 6\" data-bbox="968 128 982 148"/> =RECESSED 6\" data-bbox="987 128 1001 148"/> =RECESSED 6\" data-bbox="1006 128 1020 148"/> =RECESSED 6\" data-bbox="1025 128 1039 148"/> =RECESSED 6\" data-bbox="1044 128 1058 148"/> =RECESSED 6\" data-bbox="1063 128 1077 148"/> =RECESSED 6\" data-bbox="1082 128 1096 148"/> =RECESSED 6\" data-bbox="1101 128 1115 148"/> =RECESSED 6\" data-bbox="1120 128 1134 148"/> =RECESSED 6\" data-bbox="1139 128 1153 148"/> =RECESSED 6\" data-bbox="1158 128 1172 148"/> =RECESSED 6\" data-bbox="1177 128 1191 148"/> =RECESSED 6\" data-bbox="1196 128 1210 148"/> =RECESSED 6\" data-bbox="1215 128 1229 148"/> =RECESSED 6\" data-bbox="1234 128 1248 148"/> =RECESSED 6\" data-bbox="1253 128 1267 148"/> 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ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.

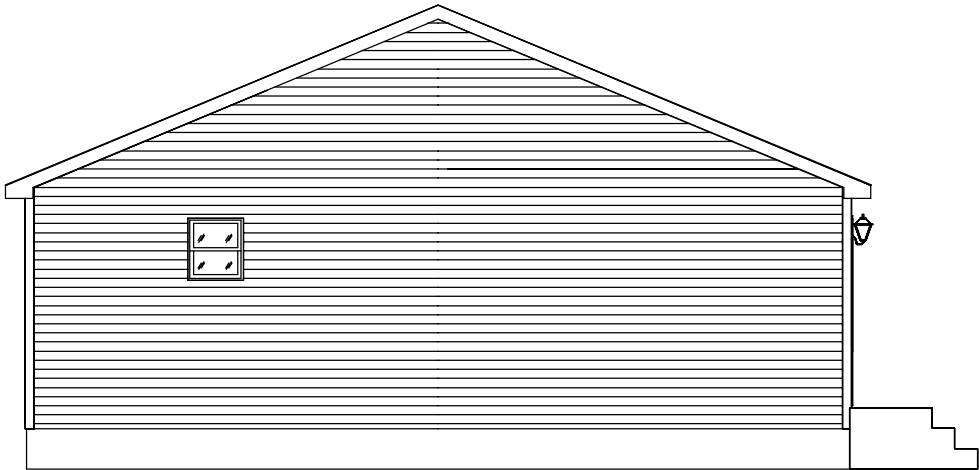
Note: Window fall protection must be provided on-site where required in accordance with applicable code.

NOTE:
HOMES WITH ATTIC SPACE QUALIFYING AS HABITABLE, MUST BE EQUIPPED WITH EMERGENCY ESCAPE AND RESCUE OPENINGS REGARDLESS OF WHETHER ATTIC AREA IS FINISHED OR UNFINISHED. OPENINGS MAY OCCUR AT END WALL OF ATTIC AND/OR AT ROOF DORMERS IN WHATEVER ARRANGEMENT NECESSARY TO INSURE THAT ANY SLEEPING ROOM HAS AT LEAST ONE EGRESS OPENING.



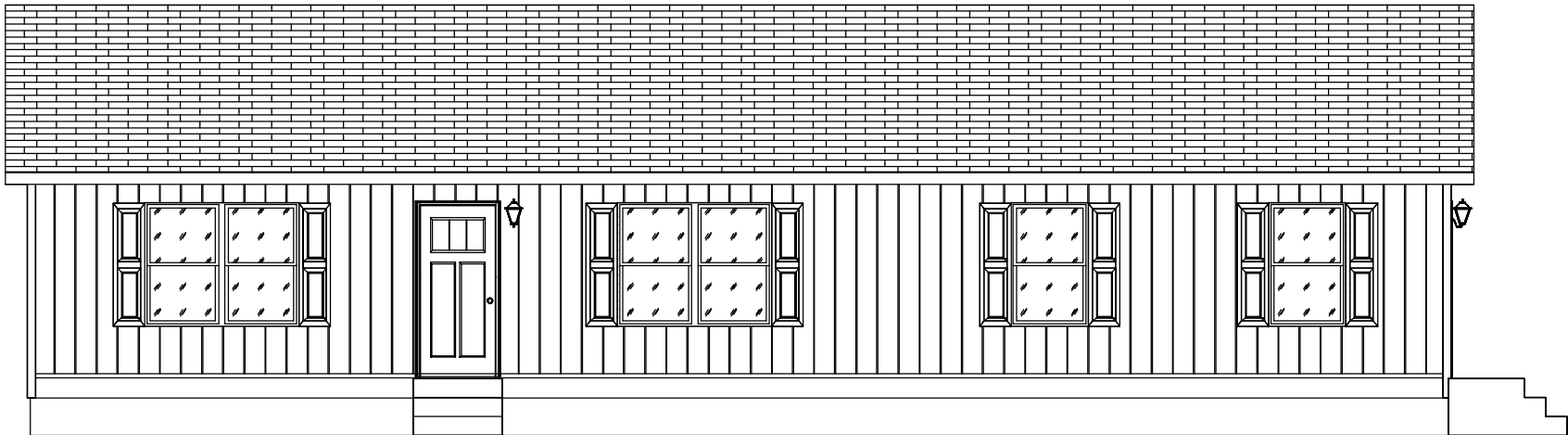
REAR VIEW

1/8" = 1'-0"



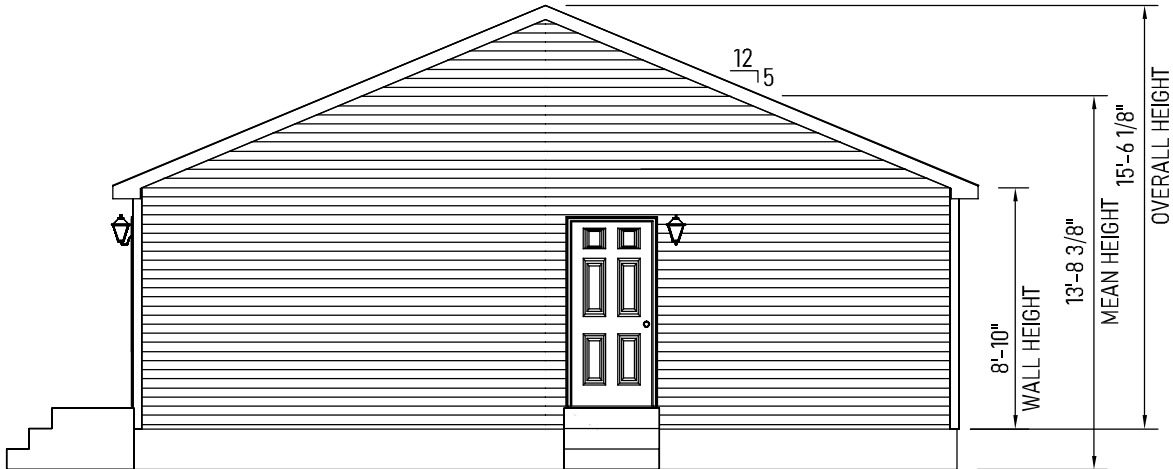
LEFT VIEW

1/8" = 1'-0"



FRONT VIEW

1/8" = 1'-0"



RIGHT VIEW

1/8" = 1'-0"

- NOTES-
- 1. FOUNDATION SHALL BE DESIGNED AND CONSTRUCTED BY OTHERS WHERE "OTHERS" REFERS TO THE DEALER BUILDER.
 - 2. GUTTERS AND LEADERS SHALL BE INSTALLED BY OTHERS.
 - 3. TYPICAL 12" OR 15" VINYL SHUTTERS PROVIDED BY MANUFACTURERS.
 - 4. ALL FOOTINGS, RAILINGS AND STEPS SHALL BE FIELD INSTALLED IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL CODES.
 - 5. SIDING SHALL BE VINYL SIDING WITH VINYL TRIM, AND MAY BE PARTIALLY INSTALLED ON SITE.
 - 6. EXTERIOR LIGHTS MAY BE SHIPPED LOOSE FOR INSTALLATION ON SITE.
 - 7. ROOFING SHINGLES MAY BE PARTIALLY SITE INSTALLED.
 - 8. PORCH RAILINGS ARE PVC. TREATED LUMBER PORCH POSTS MAY BE COVERED WITH VINYL. PORCH DECKING SHALL BE TREATED.
 - 9. ALL EXTERIOR COVERINGS SHALL BE WEATHER AND DECAY RESISTIVE TO PROVIDE PROPER PROTECTION FOR UNTREATED MATERIALS.

APPROVED BY
NIA
9/2/2025
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
Joe Shultz

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions		Scale: N.T.S.	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091	
		Drawn By: BD		Reference: 1BL1013-V		Dir: HBV	Pg.: EL		Run:	

Title: Elevations

5306932563B2025-1037091

- LEGEND
- 1 JACK POST, PIER OR CONCRETE FILLED POST THAT MEETS OR EXCEEDS REQUIRED SUPPORT CAPACITY PER FOUNDATION DESIGN.
 - 2 EXTERIOR WALL INSULATION (SEE INSULATION R-VALUES).
 - 3 2X6 #3 SPF EXTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
 - 4 2X6 #3 SPF SIDEWALL BOTTOM PLATE.
 - 5 7/16" RATED SHEATHING.
 - 6 VINYL OR HARDBOARD SIDING (RAN VERT. OR HORZ.) INSTALLED PER MFGR.'S INSTRUCTIONS.
 - 7 AIR INFILTRATION AND WATER RESISTANT BARRIER.
 - 8 2X4 #3 SPF SINGLE OR DOUBLE TOP PLATE.
 - 9 2X6 TREATED SILL PLATE. FASTENING OF SILL AND HOME TO FOUNDATION ON SITE PER CODES OR BY LOCAL ENGINEER WHEN APPLICABLE.
 - 10 2X4 #3 SPF INTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
 - 11 2X4 #3 SPF BOTTOM PLATE INTERIOR WALLS, TYP.
 - 12 ENGINEERED TRUSSES SPACED TO MEET DESIGNED GROUND LOAD SNOW LOAD.
 - 13 VAPOR BARRIER.
 - 14 CEILING BOARD 1/2" GYPSUM.
 - 15 7/16" 24/16 RATED ROOF DECKING MIN. TYP.
 - 16 2X4 #3 SPF MIN. VERT. RAIL CONT. ON BOTH SECTIONS OVER MATE WALL. USE APPLICABLE BEAM OVER OPEN SPANS (TYP.) PER PG'S C-10-10 OF SYSTEM DOCUMENT.
 - 17 RIDGE VENT TYP. 50% VENTILATION OF ROOF CAVITY (UPPER PORTION), INSTALLED PER CODE REQUIREMENTS.
 - 18 TYPICAL SHINGLES, INSTALLED PER MFGR'S INSTRUCTIONS.
 - 19 SHINGLE UNDERLAYMENT TYP.
 - 20 JOIST HANGERS AT MATELINE(S).
 - 21 1" MIN. SPACE FOR ATTIC VENTILATION.
 - 22 TYPICAL ICE BARRIER PER SECTION 905 OF APPLICABLE CODE.
 - 23 CEILING INSULATION TYP. (SEE INSULATION R-VALUES).
 - 24 ALUM., VINYL OR HARDIE BOARD FACIA AND DRIP EDGE.
 - 25 FLOOR CAVITY OR PERIMETER WALL MUST BE INSULATED ON SITE OR AT THE FACTORY (SEE "INSULATION R-VALUES")
 - 26 PERIMETER RIM JOIST MUST BE INSULATED TO R-VALUE LISTED FOR EXTERIOR WALLS
 - 27 INSULATION INSTALLED ONSITE BY OTHERS PER THERMAL REQUIREMENTS AND/OR STATE AND LOCAL CODES
 - 28 VENTED SOFFIT 50% OF LOWER ROOF VENTILATION.
 - 29 BAFFLE REQUIRED
 - 30 DRIFT BLOCKER
 - 31 VAPOR RETARDER (AS REQUIRED PER CLIMATE ZONE).
 - 32 FLOOR DECKING RATED FOR 19.2" O.C. JOIST SPACING MAX.
 - 33 MIN. 2X10 #2 SPF FLOOR JOIST 16" O.C.
 - 34 2X6 #3 SPF DOUBLE TOP PLATE.
 - 35 WALL COVERING (MIN. 1/2" GYPSUM).

TRIMLINE RIDGE VENT: ALLOWS 13" OF NET FREE AIR PER LINEAL FOOT

FULL LENGTH OF HOUSE AIR FLO SOFFIT: FULL VENTED 5.89 SQ IN PER LINEAL FOOT

FULL LENGTH OF HOUSE 1680/300 = 5.60 VENT REQUIRED

IMPORTANT!

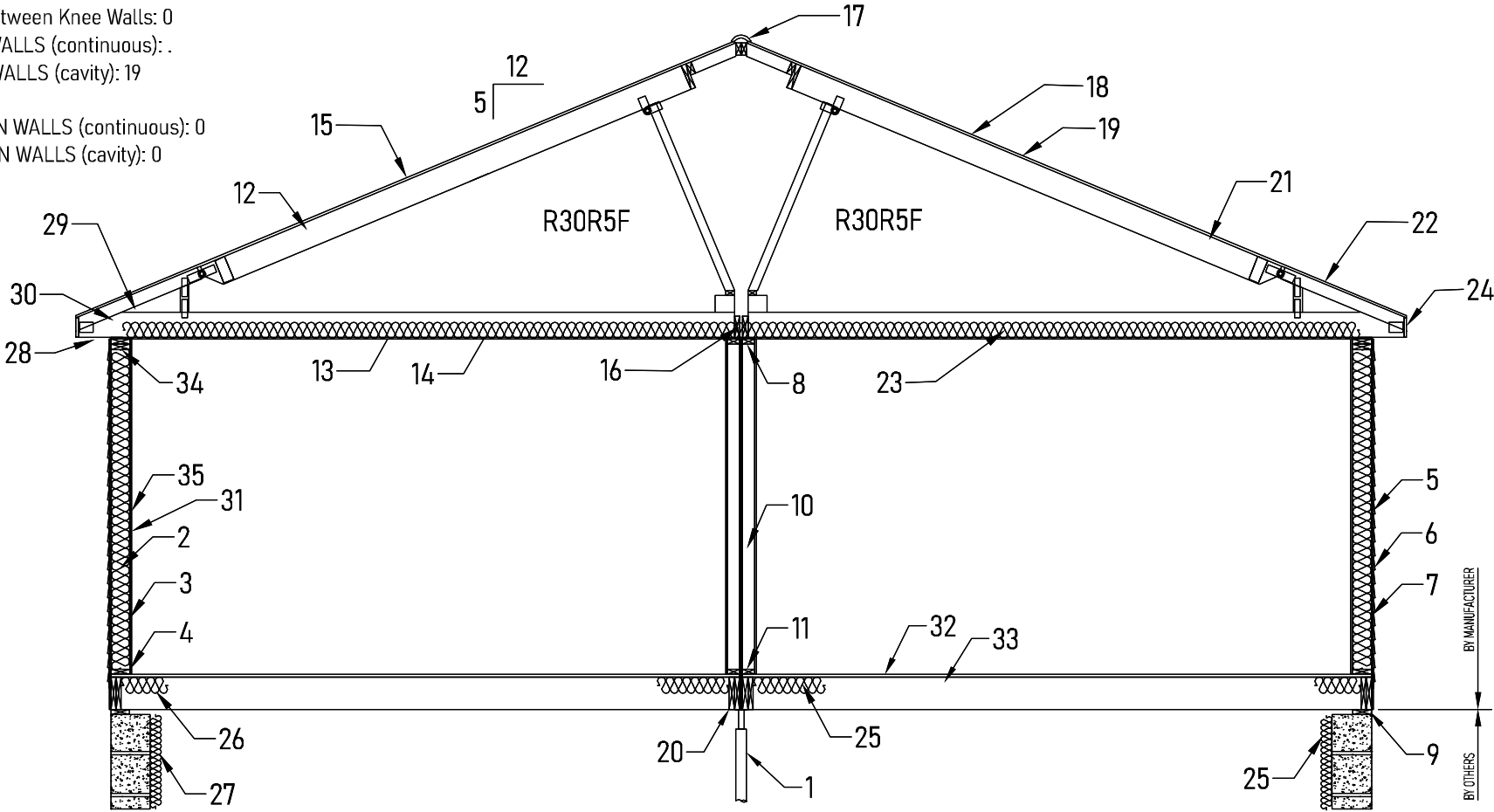
MAIN LEVEL FLOORS, OVER ENCLOSED FOUNDATIONS, CONSTRUCTED WITH OPTIONAL ENGINEERED WEB FLOOR JOISTS (OPEN JOISTS) OR WITH JOISTS OF NOMINAL LUMBER LESS THAN 2X10, MAY BE SUBJECT TO SPECIAL FIRE PROTECTIVE REQUIREMENTS TO BE PERFORMED BY OTHERS ON SITE. CONSULT ADOPTED LOCAL CODES FOR COMPLIANCE WITH FIRE PROTECTION OF FLOORS. REFERENCE THE APPROVED SYSTEMS PACKAGE FOR ADDITIONAL AND SPECIFIC CROSS SECTION INFORMATION

Truss Data			
Truss #	Spacing	Sidewall	Centerline
R30R5F	24	742	828
.	.	.	.
.	.	.	.
.	.	.	.

STUD O.C. SPACING
EXTERIOR WALL: 24"
INTERIOR WALL: 24"

INSULATION R-VALUES
CEILING: 38
CEILING (Between Knee Walls: 0
EXTERIOR WALLS (continuous): .
EXTERIOR WALLS (cavity): 19
FLOOR: 30
FOUNDATION WALLS (continuous): 0
FOUNDATION WALLS (cavity): 0

SYSTEMS MANUAL REFERENCES
FLOOR CONSTRUCTION: A-10-10 & 20
SIDEWALL CONSTRUCTION: B-10-10
CENTER WALL UPLIFT DETAIL: B-20-10
COLUMN REQUIREMENTS: B-20-20, 21 & 30
INTERIOR WALLS: B-30-10 & 11
BEAMS: C-10-10 THRU C-10-30



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NOTES:

FOLLOW RECOMMENDED ATTACHMENTS FOR FASTENING OF HOME TO FOUNDATION.

FOUNDATIONS TO BE BUILT AND CONSTRUCTED BY OTHERS ON SITE.

FOUNDATIONS (BY OTHERS) MUST MEET ALL APPLICABLE CODES.

NOTES AND/OR ILLUSTRATIONS SHOWN ARE TYPICAL AND MAY NOT APPLY TO ALL HOMES CONSTRUCTED.

CONSTRUCTION & SPECIFICATIONS MAY VARY PER PLAN.

REFER TO INSTALLATION MANUAL FOR MODULE CONNECTIONS.

REFER TO INSTALLATION MANUAL AND TRUSS MFG. DIAGRAM FOR ROOF TRUSS BRACING.

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 1/4" = 1'-0"	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091
Title: Cross Section		Drawn By: BD	Reference: 1BL1013-V		Dir: HBV	Pg.: XS		Run: .

- NOTE:
- 1. 3/4" GALVANIZED, OR COPPER RELIEF DRAIN (NOT SHOWN) THRU FLOOR w/VISIBLE AIR GAP
 - 2. INLET WITH 1" CAP & CHAIN.
 - 3. DIMENSIONS EXPRESSED IN PARENTHESIS (A x B) INDICATE: (DIST. FROM REAR END OF HOME FLOOR x DIST. FROM HOME MATE LINE).
 - 4. ANTI-SCALD DEVICE ON ALL SHOWER, AND TUB/SHOWER COMBINATIONS.
 - 5. WATER-HAMMER ARRESTORS AT BATTERY OF FIXTURES INSTALLED WHEREVER THERE IS A QUICK-CLOSING VALVE CONFORMING TO ASSE 1010 & MANUFACTURER'S INSTRUCTIONS.
 - 6. SHUT-OFF VALVE IS REQUIRED AT EACH FIXTURE
 - 7. BATHROOMS WITH DOUBLE LAVS ARE FED FROM THE SAME RISER.
 - 8. ANY LINE NOT LABELED IS 1/2"
 - 9. WATER HEATER TEMPERATURE & PRESSURE RELIEF VALVE AND RELIEF DRAIN PIPE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - 10. SHUT-OFF VALVE AT WATER HEATER IS FULL OPEN VALVE INSTALLED ON COLD WATER SUPPLY PIPE AT EACH WATER HEATER, PER CODE.
 - 11. FULLWAY SHUT-OFF VALVE WITH BLEED ORIFICE INSTALLED AT MAIN INLET SERVICE VALVE, INSTALLED ON-SITE, PER CODE.
 - 12. SEE SYSTEMS PACKAGE PLUMBING SECTION PAGES FOR ADDITIOINAL PLUMBING NOTES AND DETAILS

SITE NOTES FOR DIAGRAM EXPLANATION:

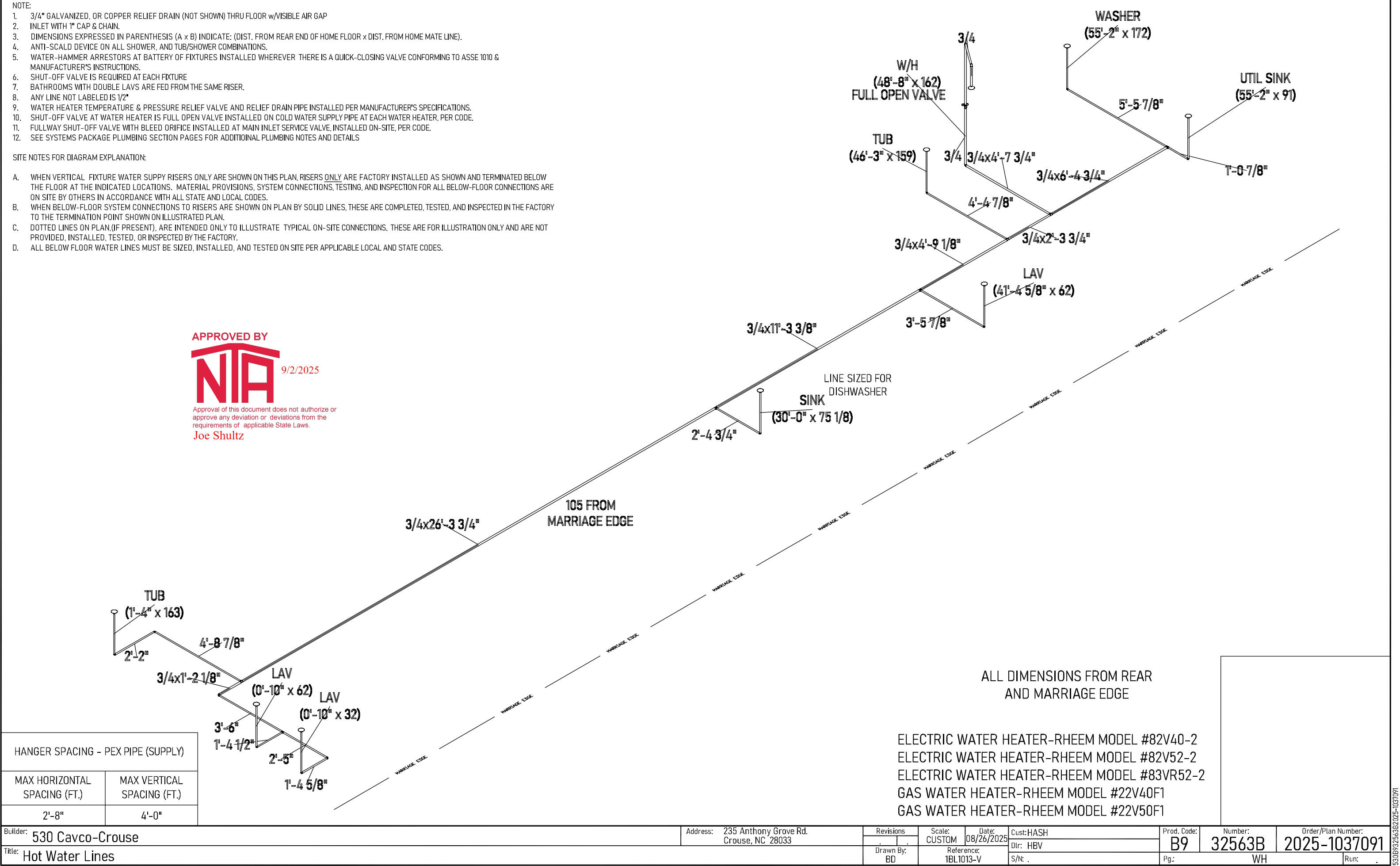
- A. WHEN VERTICAL FIXTURE WATER SUPPY RISERS ONLY ARE SHOWN ON THIS PLAN, RISERS ONLY ARE FACTORY INSTALLED AS SHOWN AND TERMINATED BELOW THE FLOOR AT THE INDICATED LOCATIONS. MATERIAL PROVISIONS, SYSTEM CONNECTIONS, TESTING, AND INSPECTION FOR ALL BELOW-FLOOR CONNECTIONS ARE ON SITE BY OTHERS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- B. WHEN BELOW-FLOOR SYSTEM CONNECTIONS TO RISERS ARE SHOWN ON PLAN BY SOLID LINES, THESE ARE COMPLETED, TESTED, AND INSPECTED IN THE FACTORY TO THE TERMINATION POINT SHOWN ON ILLUSTRATED PLAN.
- C. DOTTED LINES ON PLAN,(IF PRESENT), ARE INTENDED ONLY TO ILLUSTRATE TYPICAL ON-SITE CONNECTIONS. THESE ARE FOR ILLUSTRATION ONLY AND ARE NOT PROVIDED, INSTALLED, TESTED, OR INSPECTED BY THE FACTORY.
- D. ALL BELOW FLOOR WATER LINES MUST BE SIZED, INSTALLED, AND TESTED ON SITE PER APPLICABLE LOCAL AND STATE CODES.

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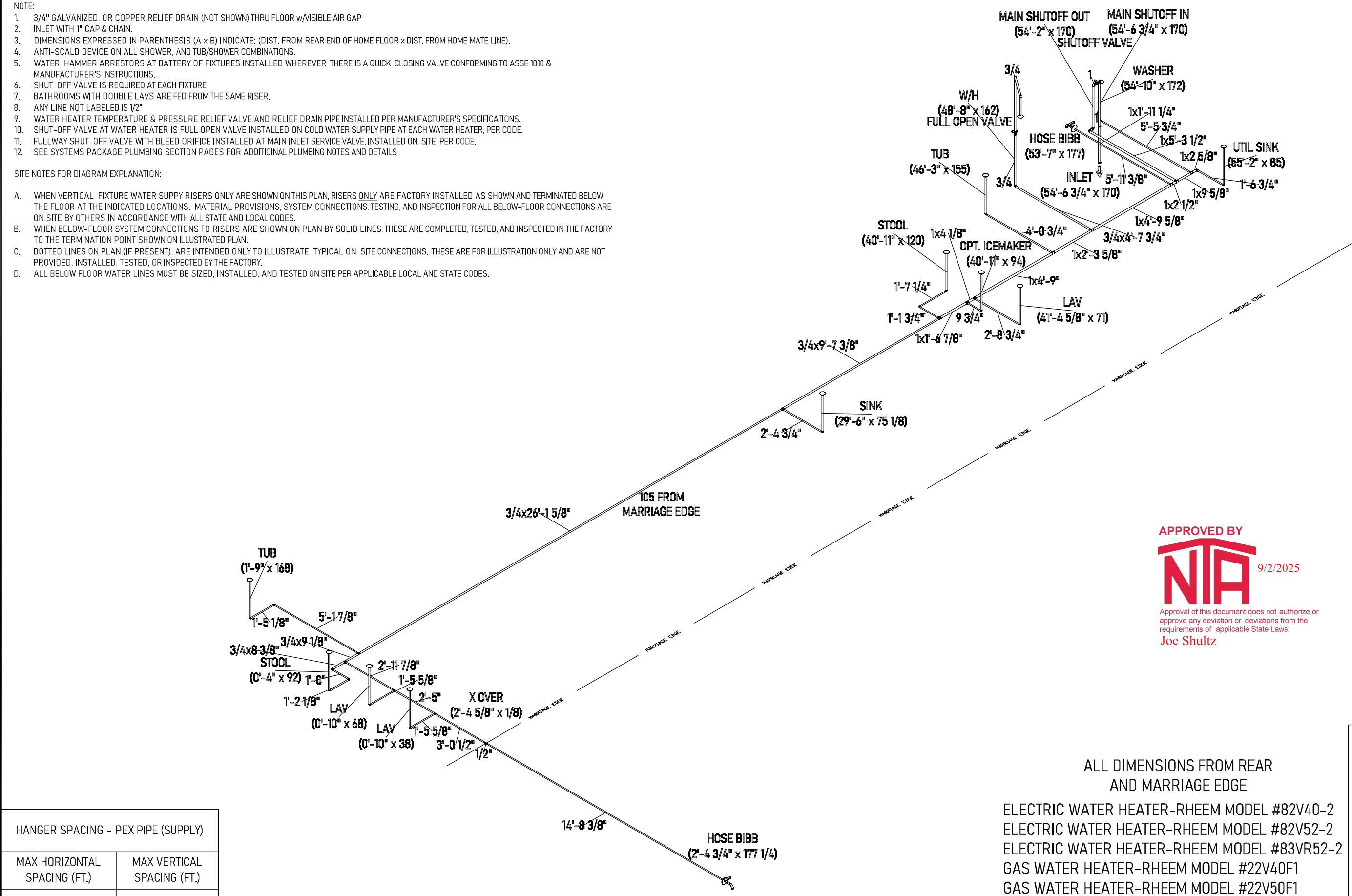
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- NOTE:
- 3/4" GALVANIZED, OR COPPER RELIEF DRAIN (NOT SHOWN) THRU FLOOR w/VISIBLE AIR GAP
 - INLET WITH 1" CAP & CHAIN.
 - DIMENSIONS EXPRESSED IN PARENTHESIS (A x B) INDICATE: (DIST. FROM REAR END OF HOME FLOOR x DIST. FROM HOME MATE LINE).
 - ANTI-SCALD DEVICE ON ALL SHOWER, AND TUB/SHOWER COMBINATIONS.
 - WATER-HAMMER ARRESTORS AT BATTERY OF FIXTURES INSTALLED WHEREVER THERE IS A QUICK-CLOSING VALVE CONFORMING TO ASSE 1010 & MANUFACTURER'S INSTRUCTIONS.
 - SHUT-OFF VALVE IS REQUIRED AT EACH FIXTURE
 - BATHROOMS WITH DOUBLE LAVS ARE FED FROM THE SAME RISER.
 - ANY LINE NOT LABELED IS 1/2"
 - WATER HEATER TEMPERATURE & PRESSURE RELIEF VALVE AND RELIEF DRAIN PIPE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - SHUT-OFF VALVE AT WATER HEATER IS FULL OPEN VALVE INSTALLED ON COLD WATER SUPPLY PIPE AT EACH WATER HEATER, PER CODE.
 - FULLWAY SHUT-OFF VALVE WITH BLEED ORIFICE INSTALLED AT MAIN INLET SERVICE VALVE, INSTALLED ON-SITE, PER CODE.
 - SEE SYSTEMS PACKAGE PLUMBING SECTION PAGES FOR ADDITIONAL PLUMBING NOTES AND DETAILS

SITE NOTES FOR DIAGRAM EXPLANATION:

- WHEN VERTICAL FIXTURE WATER SUPPLY RISERS ONLY ARE SHOWN ON THIS PLAN, RISERS ONLY ARE FACTORY INSTALLED AS SHOWN AND TERMINATED BELOW THE FLOOR AT THE INDICATED LOCATIONS. MATERIAL PROVISIONS, SYSTEM CONNECTIONS, TESTING, AND INSPECTION FOR ALL BELOW-FLOOR CONNECTIONS ARE ON SITE BY OTHERS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- WHEN BELOW-FLOOR SYSTEM CONNECTIONS TO RISERS ARE SHOWN ON PLAN BY SOLID LINES, THESE ARE COMPLETED, TESTED, AND INSPECTED IN THE FACTORY TO THE TERMINATION POINT SHOWN ON ILLUSTRATED PLAN.
- DOTTED LINES ON PLAN,(IF PRESENT), ARE INTENDED ONLY TO ILLUSTRATE TYPICAL ON-SITE CONNECTIONS. THESE ARE FOR ILLUSTRATION ONLY AND ARE NOT PROVIDED, INSTALLED, TESTED, OR INSPECTED BY THE FACTORY.
- ALL BELOW FLOOR WATER LINES MUST BE SIZED, INSTALLED, AND TESTED ON SITE PER APPLICABLE LOCAL AND STATE CODES.



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HANGER SPACING - PEX PIPE (SUPPLY)	
MAX HORIZONTAL SPACING (FT.)	MAX VERTICAL SPACING (FT.)
2'-8"	4'-0"

ALL DIMENSIONS FROM REAR AND MARRIAGE EDGE

ELECTRIC WATER HEATER-RHEEM MODEL #82V40-2
ELECTRIC WATER HEATER-RHEEM MODEL #82V52-2
ELECTRIC WATER HEATER-RHEEM MODEL #83VR52-2
GAS WATER HEATER-RHEEM MODEL #22V40F1
GAS WATER HEATER-RHEEM MODEL #22V50F1

Builder: 530 Cavco-Crouse				Address: 235 Anthony Grove Rd. Crouse, NC 28033		Revisions		Scale: CUSTOM	Date: 08/26/2025	Cust: HASH		Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091	
Title: Cold Water Lines						Drawn By: BD		Reference: 1BL1013-V		Dir: HBV		Pg.: WC		Run:	

NOTE:

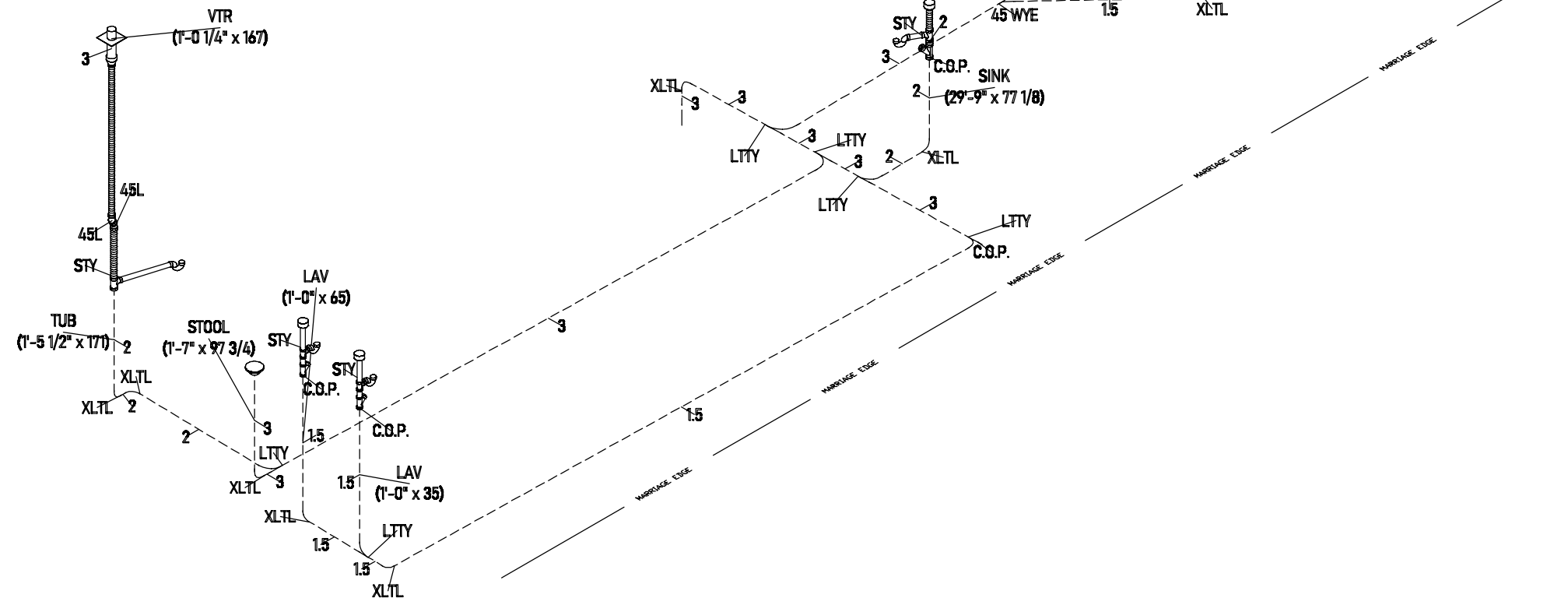
1. ALL LINES 1/4" SLOPE/FOOT MINIMUM UNLESS OTHERWISE NOTED.
2.  DENOTES 1/8" SLOPE/FOOT.
3. ALL 2" DIA. LINES SHOWN FILLED (BOLD)
4. ALL LINES 1-1/2" DIA. MINIMUM OTHERWISE NOTED.
5. LINES SERVING STOOL ARE 3" DIA. CONTINUOUS TO OUTLET.
6. AIR ADMITTANCE VALVES SHOWN ARE IN ACCORDANCE w/ASSE 1051 & MANUFACTURER'S INSTRUCTIONS.
7. CONTINUOUS WASTE APPL. ON SINKS AND LAVATORIES WHERE SPACING DOES NOT EXCEED 30".
8. STACKS CLEANED THROUGH REMOVABLE FIXTURE P-TRAPS.
9. THE DISCHARGE LINE FROM THE DISHWASHER SHALL BE NOT LESS THAN 1/2 INCH NOMINAL SIZE AND SHALL EITHER BE LOOPED UP AND SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER OR BE CONNECTED TO A DECK-MOUNTED DISHWASHER AIR GAP FITTING THAT IS LISTED.

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ALL DIMENSIONS FROM REAR
AND MARRIAGE EDGE

HANGER SPACING - DRAIN PIPE (DWV)	
MAX HORIZONTAL SPACING (FT.)	VERTICAL SPACING
4'-0"	Vertical piping shall be supported at each story or floor level.

DWV FITTING IDENTIFICATION			
XLTL	LONG TURN 90° ELBOW	4X3CB	90° CLOSET ELBOW
XLSL	LONG TURN 90° STREET ELBOW	3-WAY-L	DOUBLE 90° ELBOW
45L	45° ELBOW	STY	SANITARY TEE
45SL	45° STREET ELBOW	LTTY	LONG RADIUS TY
22.5L	22 1/2° ELBOW	45 WYE	45° WYE
22.5SL	22 1/2° STREET ELBOW		

PLUMBING ABOVE THE FLOOR IS FACTORY INSTALLED. PLUMBING BELOW THE FLOOR INCLUDING CONNECTIONS SHALL BE INSTALLED ON SITE BY OTHERS ACCORDING TO SITE CONDITIONS, SUBJECT TO APPROVAL OF LOCAL INSPECTION. ON SITE PLUMBING SHOWN IS SUGGESTIVE ONLY.

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: CUSTOM	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091
Title: DWV System		Drawn By: BD	Reference: 1BL1013-V		S/N: .	Pg.: DL	Run:	

530B932563B2025-1037091

PIPE SUPPORT:

VERTICAL PIPING:

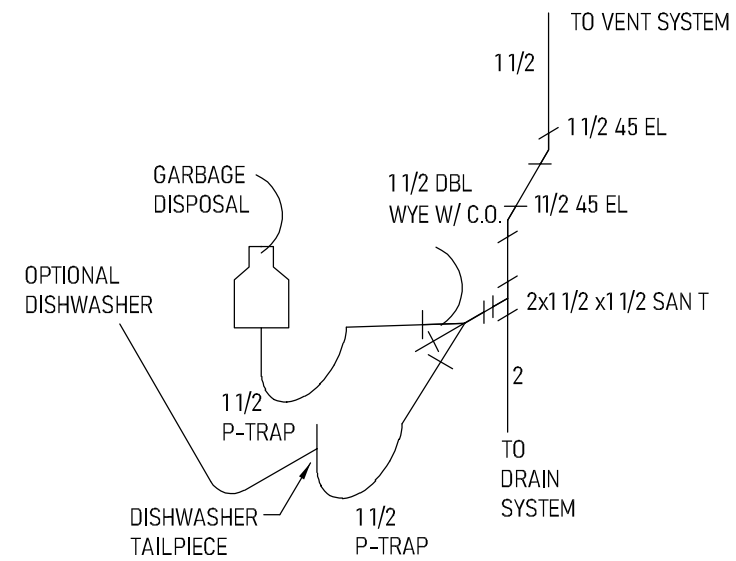
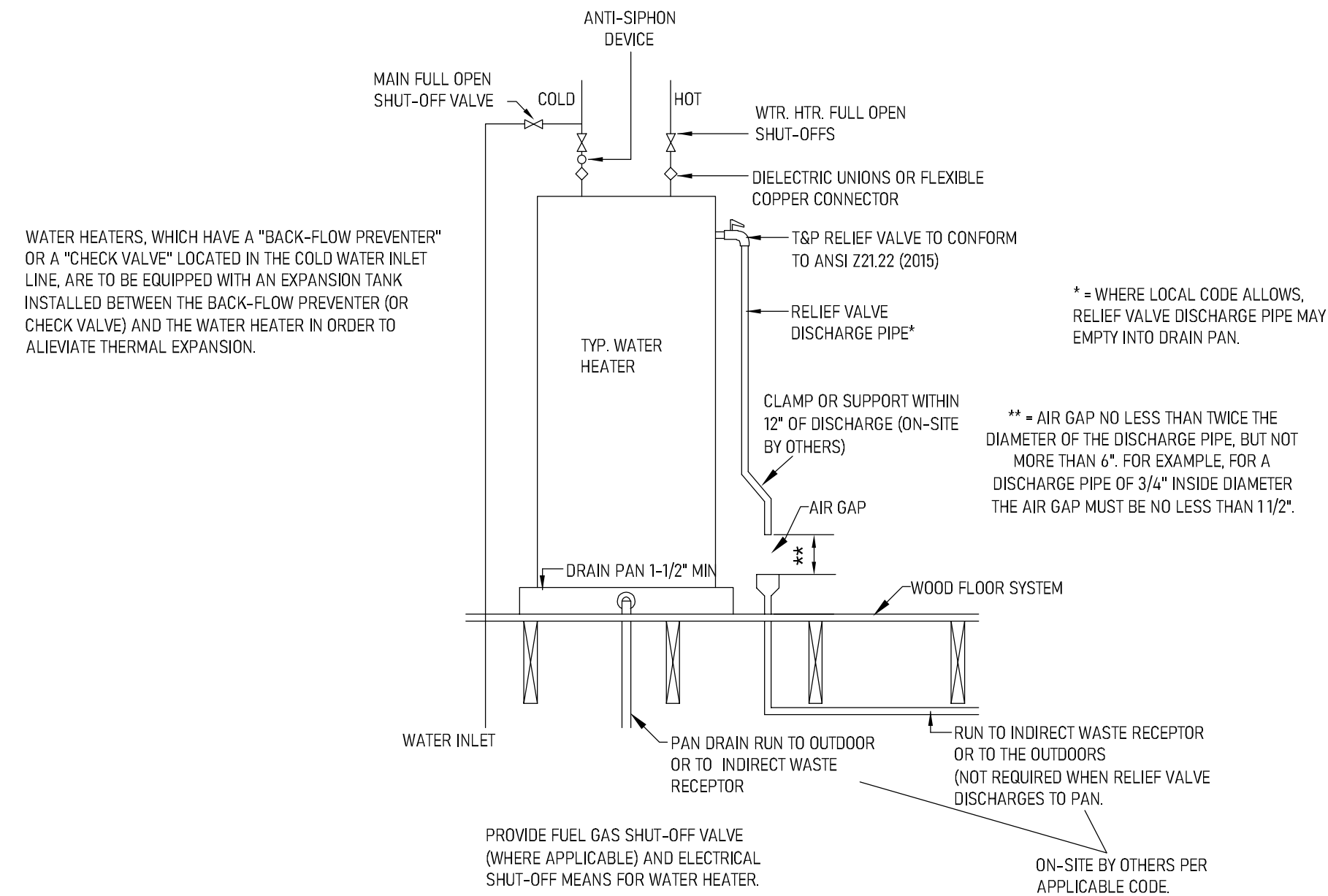
SUPPORTS AT 10' O.C. MAX.
OR BETWEEN FLOOR LEVELS.

HORIZONTAL PIPING:

SUPPORTS AT 4' O.C. MAX.
ENDS OF BRANCHES, AND
AT CHANGES IN ELEVATION
AND/OR DIRECTION.

TRAP ARMS:

SUPPORT LOCATED AS
CLOSE TO TRAP AS
POSSIBLE WHEN TRAP TO
VENT EXCEEDS 3'.



OPTIONAL GARBAGE DISPOSAL PLUMBING ILLINOIS MODELS ONLY - USE DETAIL ABOVE FOR OPTIONAL GARBAGE DISPOSAL.

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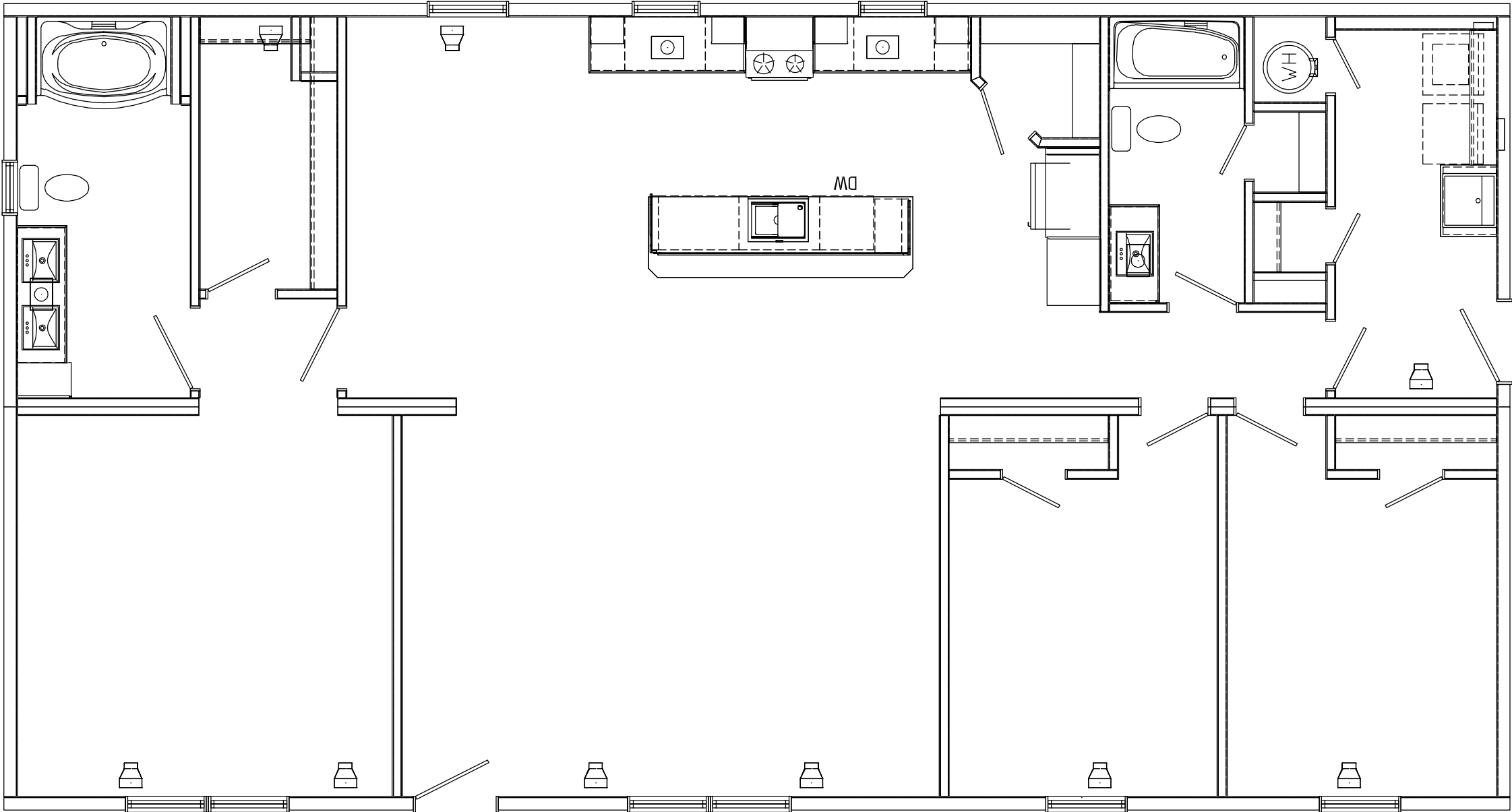
- NOTES:
- ALL BELOW FLOOR PLUMBING BY OTHERS. ALL FITTINGS BELOW BOTTOM CAN BE SHIPPED LOOSE.
 - ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SOME MODIFICATIONS.
 - OPT. GARBAGE DISPOSAL TO BE LOCATED ON KITCHEN SINK WASTE ASSEMBLY. ALL VENTS THRU ROOF TO BE 3", 12" MIN. ABOVE AND BELOW ROOF PENETRATION.
 - ALL P-TRAPS TO BE 1 1/2" UNLESS NOTED.
 - HORIZONTAL VENT SLOPE : 1/8" PER FOOT
 - HORIZONTAL DRAIN SLOPE: 1/4" PER FOOT
 - DRAIN, WASTE, AND VENT PLUMBING TO BE PVC PLASTIC OR EQUAL, APPROVED FOR DWV APPLICATIONS.
 - DRAIN AND DISCHARGE PIPES SERVING WATER HEATERS TO BE CPVC OR OTHER CODE APPROVED MATERIAL.
 - ANY TRANSITIONS TO MATERIALS, OTHER THAN THE SPECIFIED MATERIAL, MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.
 - ALL TUBS WITH WHIRLPOOL MUST BE PROVIDED WITH ACCESS TO MOTOR. ALL PLUMBING TO MEET OR EXCEED CURRENT ADOPTED PLUMBING CODES.
 - IN CONCEALED SPACES WHERE PIPING IS INSTALLED THRU HOLES OR NOTCHES IN STUDS, JOISTS, TRUSSES, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY SHIELD PLATES.
 - PROTECTIVE SHIELD PLATES SHALL BE A MINIMUM OF 16 GA. STEEL. PLATES SHALL COVER AREA OF THE PIPE WHERE THE MEMBERS ARE NOTCHED OR BORED, AND SHALL EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.
 - AIR ADMITTANCE VALVES MAY SUBSTITUTE ROOF VENTS AT VARIOUS LOCATIONS PER APPLICABLE STATE AND LOCAL PLUMBING CODES. THE 3" MAIN VENT MUST BE VENTED THRU THE ROOF AND CANNOT BE MECHANICALLY VENTED.
 - IN SEISMIC CATEGORIES D0, D1, D2 OR E STRAP UPPER THIRD AND LOWER THIRD OF WATER HEATER TO RESIST A HORIZONTAL FORCE OF 1/3 THE OPERATING WEIGHT OF THE WATER HEATER.

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions		Scale: N.T.S.	Date: 08/26/2025	Cust: HASH		Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091	
		Drawn By: BD				Dir: HBV				Pg.: DN	Run: .

Title: DWV Notes

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FURNACE AND HEAT DUCTS ARE
OMITTED AND WILL BE INSTALLED
ON-SITE BY OTHERS

HVAC MUST BE INSTALLED BY LICENSED HVAC TECHNICIAN

Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 0.017315	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091
		Drawn By: BD	Reference: 1BL1013-V		Dir: HBV			
Title: Supply Air Ducts - Perimeter Registers					S/N: .	Pg.: SP		Run: .

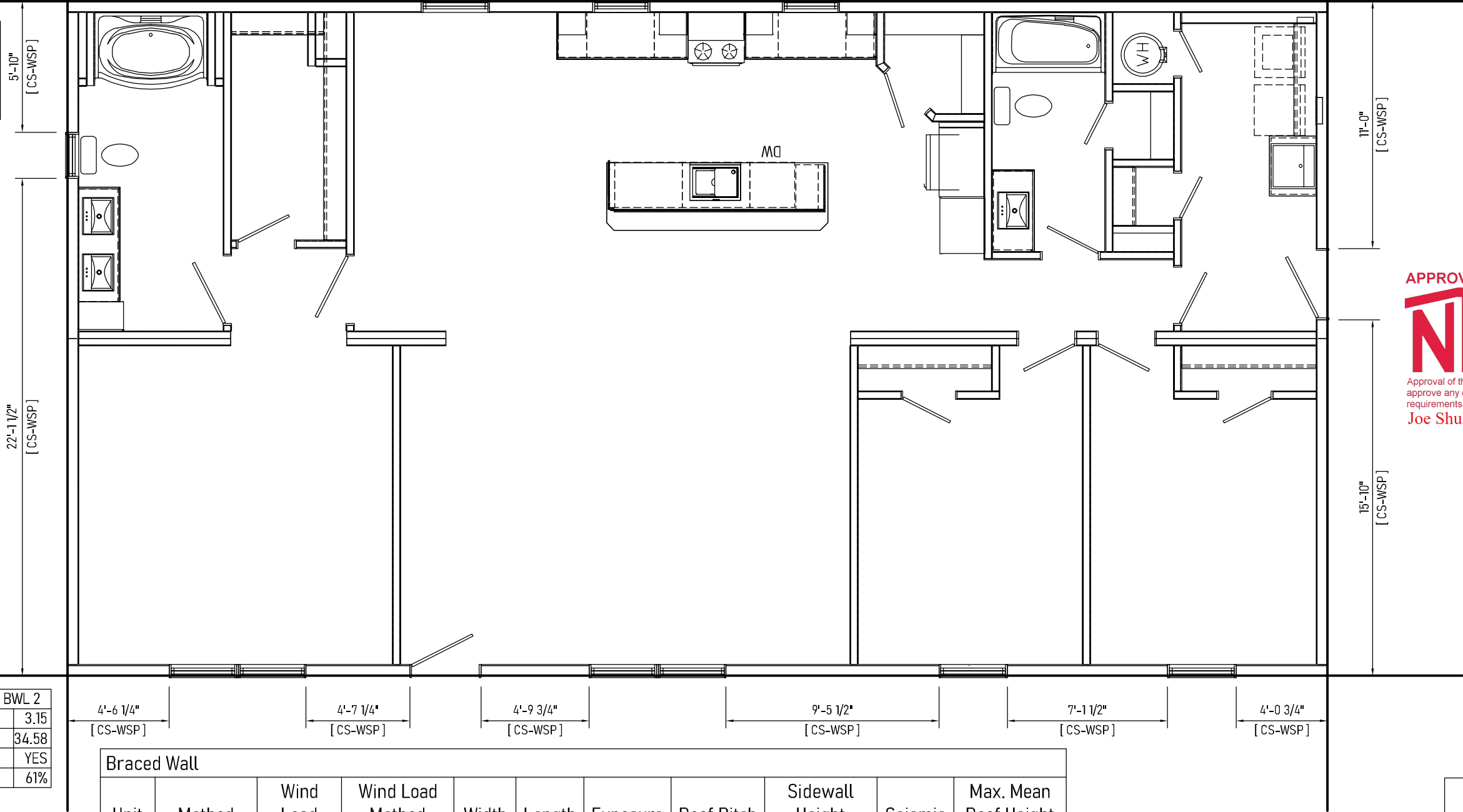
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VERTICAL BWL 1	
REQUIRED	5.94
PROVIDED	27.96
MEETS REQ	YES
% SHEATHED	93%

NCRC BRACED WALL CONSTRUCTION DETAILS	
WALL TYPE	CONSTRUCTION
EXTERIOR	7/16" SHEATHING ONE SIDE WITH 0.131 PD NAILS AT 6" O/C EDGE SPACING AND 12" O/C FIELD SPACING.

VERTICAL BWL 2	
REQUIRED	5.94
PROVIDED	26.83
MEETS REQ	YES
% SHEATHED	89%

HORIZONTAL BWL 1	
REQUIRED	3.15
PROVIDED	47.88
MEETS REQ	YES
% SHEATHED	85%



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HORIZONTAL BWL 2	
REQUIRED	3.15
PROVIDED	34.58
MEETS REQ	YES
% SHEATHED	61%

Braced Wall										
Unit	Method	Wind Load	Wind Load Method	Width	Length	Exposure	Roof Pitch	Sidewall Height	Seismic	Max. Mean Roof Height
MAIN	2018 NC RC	120 mph	Ultimate	30'-0"	56'-0"	B	5/12	8'-0"	B	IRC

Bracing per prescriptive North Carolina 2018 Residential code.

In conjunction with the wall bracing requirements of Section 602.10, all exterior walls are sheathed with wood structural sheathing panels in accordance with 4506.2 for 140 to 150 MPH structural bracing.

FOUNDATION TIE-DOWN MUST BE CONNECTED ON-SITE BY POINT LOAD LOCATIONS AS NOTED (BY OTHERS).
ALTERNATIVE TIE DOWN CONNECTION METHODS APPROVED BY A LOCAL ENGINEER MAY BE USED.
REFER TO THE IRC FOR FOUNDATION TIE DOWN REQUIREMENTS FOR 130 MPH OR LESS WIND ZONES

Footing size (in.)	Footing max. load (lbs.) for 8" x16" pier		
	1500 PSF	2000 PSF	2500 PSF
*16x16x6	2.5K	3.4K	4.3K
*20x20x6	4.0K	5.3K	6.7K
24x24x8	5.6K	7.6K	9.6K
30x30x10	8.5K	11.7K	14.8K
36x36x12	12.4K	16.7K	20.7K
42x42x14	16.5K	22.4K	28.2K
48x48x14	21.2K	N/A	N/A
* = A 4" thick pre-cast footer of equivalent width and length may be used in place of a 6" thick cast in place footer.			
Footer size must be designed by others to site conditions if noted kip load exceeds capacities listed above			

COLUMNS & FOOTINGS
MUST BE RATED TO
MEET THE CENTER
LINE LOADS LISTED

GROUND SNOW LOAD

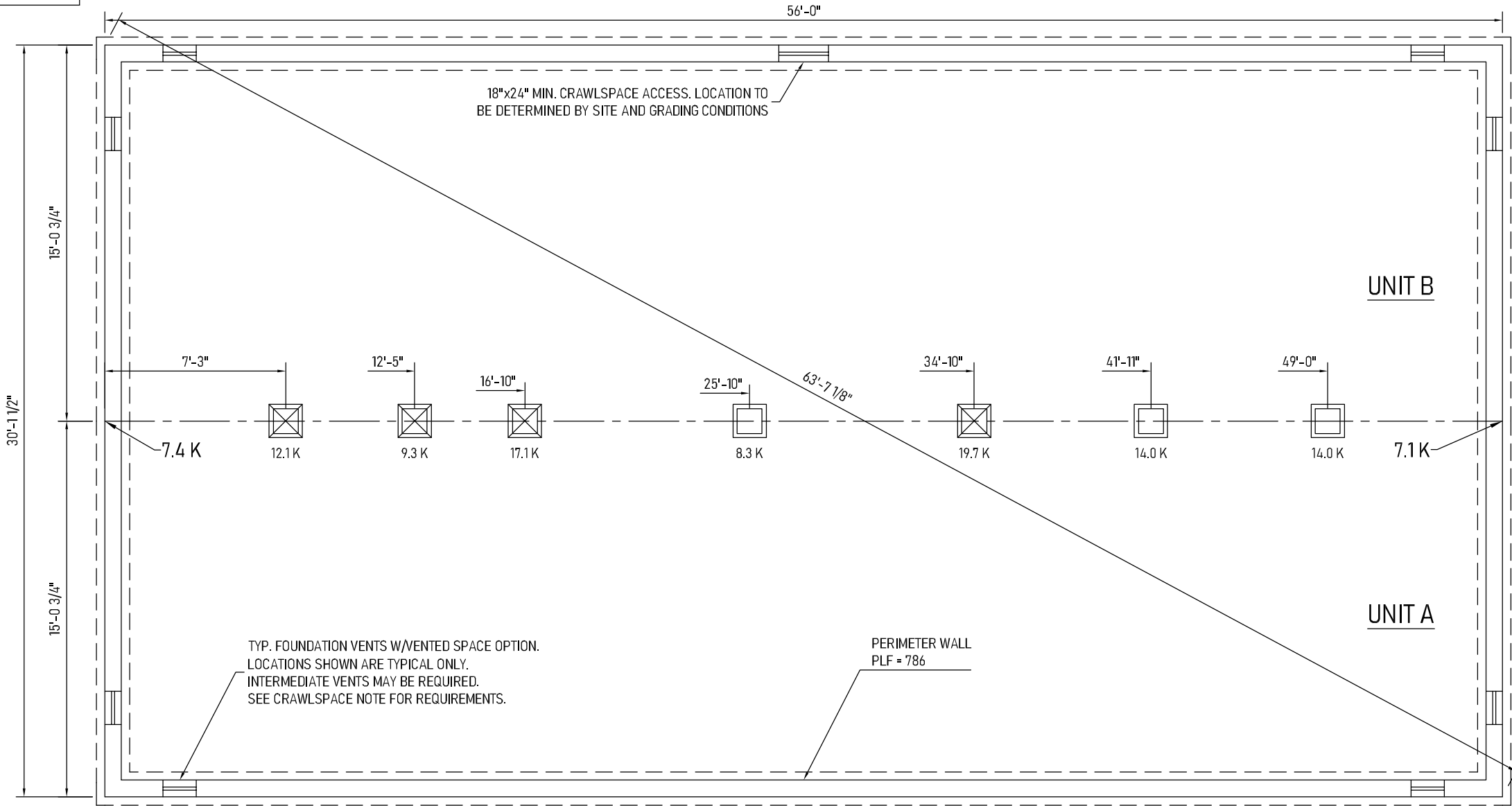
20
PSF

Kip loads noted are based on allowable stress design (ASD).
Capacity of supports (columns, footings, etc.) must exceed noted Kip loads.
Any changes to this plan that effect the foundation in any way will be the sole responsibility of the builder/dealer.

SELF-WEIGHT ON FOOTERS NOT INCLUDED IN LOADS SHOWN.
♦ IF APPLICABLE, REPRESENTS TIE DOWN LOADS FROM BRACE WALLS TO FOUNDATION. TO BE DESIGNED ON SITE BY OTHERS.

FOR CONNECTION OF THE HOME TO FOUNDATION AT BRACING WALLS, REFER TO "BRACED WALLS-CALCULATED" PAGE, IF APPLICABLE. WHEN THIS PAGE IS PRESENT, HORIZONTAL AND OVERTURNING (RACKING) LOADS AT BRACING WALL LOCATIONS ARE INDICATED FOR THESE FOUNDATION CONNECTIONS. THESE LOADS MAY BE RECALCULATED AND REDESIGNED PER LOCAL CODES TO CONFORM TO SITE CONDITIONS AS REQUIRED. REFER TO CHAPTER 3 (3.9 TIE DOWN TO FOUNDATION) OF THE "MODULAR HOME INSTALLATION MANUAL" FOR ADDITIONAL INFORMATION. REFER TO APPLICABLE CODES FOR CONNECTION OF HOME TO FOUNDATION WHEN "BRACED WALLS-PRESCRIPTIVE" PAGE IS APPLICABLE.

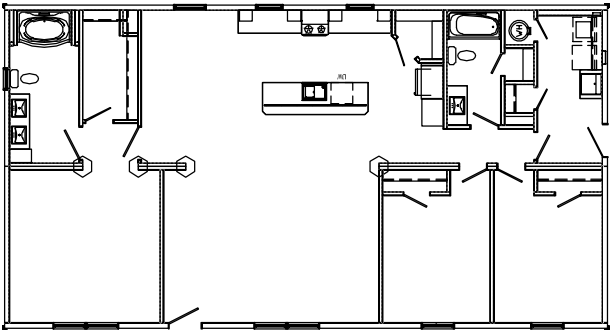
FOUNDATION SHOWN MUST BE DESIGNED BY OTHERS TO THE SITE CONDITIONS. THIS INCLUDES SEISMIC DESIGN AND ATTACHING THE HOME TO THE FOUNDATION, ALONG WITH RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNLIFT FORCES IN BOTH DIRECTIONS.



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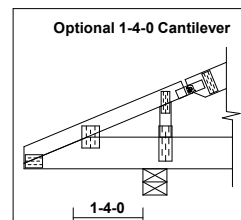
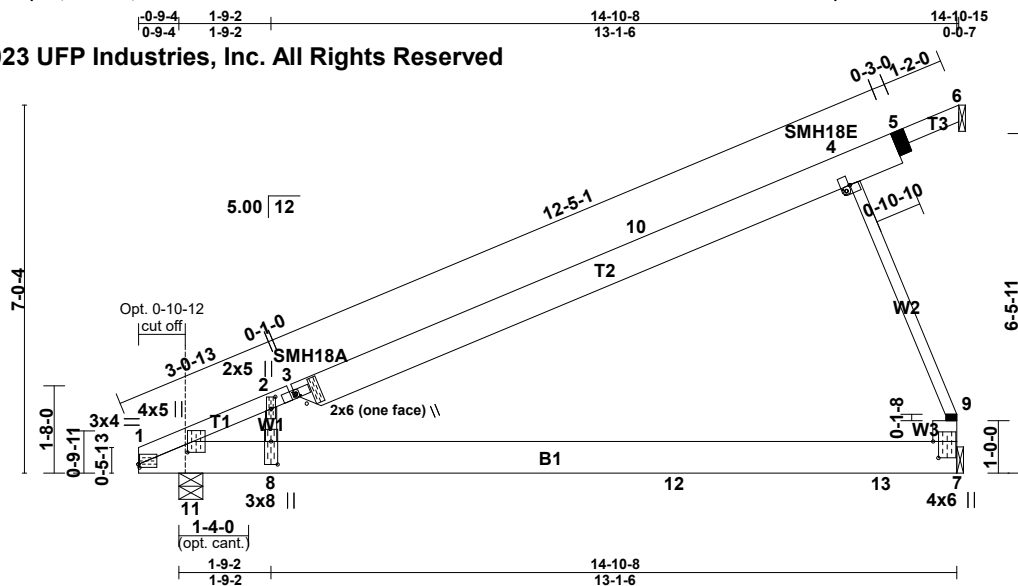
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- 2X10 OR TRUSS FLOOR NOTES -
- FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
 - WIDTH DIMENSIONS SHOWN INCLUDE A 3/4" ALLOWANCE PER HOME SECTION FOR HOMES WITH FACTORY-INSTALLED O.S.B. ON THE MARRIAGE WALL MATE LINE. THIS ALLOWANCE TAKES INTO ACCOUNT THE 7/16" O.S.B. MATERIAL INSTALLED ON EACH MARRIAGE WALL PLUS ALLOWANCE DUE TO OTHER FACTORS. IF HOME DOES NOT INCLUDE O.S.B. ON THE MARRIAGE WALL MATE LINE, FOUNDATION WIDTH IS TO BE SIZED EQUAL TO ACTUAL MANUFACTURED FLOOR WIDTH. LESSER DIMENSION, IF SHOWN, INDICATES ACTUAL FLOOR WIDTH. THESE DIMENSIONS DO NOT ALLOW FOR ANY VARIANCE THAT MAY OCCUR IN SITE INSTALLATION SUCH AS GAPPING, OFF CENTER SET OR OTHER FIELD-ENCOUNTERED VARIABLES. ANY ADJUSTMENTS NEEDED IN FOUNDATION WIDTH DUE TO SUCH VARIANCES ARE AT THE DISCRETION OF THE INSTALLER.
 - FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
 - SILL PLATE FASTENING TO BE PER INSTALLATION MANUAL AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE YOUR HOME DATA PLATE FOR APPLICABLE ZONES.
 - CONCRETE COMPRESSIVE STRENGTH (FC): 2500 PSI MINIMUM.
 - CENTERLINE LINE SUPPORTS AND SPACING ARE BASED ON (2) 2X10's SPF#2 ON EACH HALF (4-2X10'S TOTAL).
 - CRAWLSPACE VENTILATION IS NOT REQUIRED WHEN INSULATION IS APPLIED TO CRAWLSPACE WALLS AS REQUIRED BY RESCHECK (CONDITIONED AIR). INSTALLATION OF VENTS IN CRAWLSPACE WALLS WOULD MANDATE INSULATING THE FLOOR SYSTEM PER APPLICABLE THERMAL CALCULATIONS. REFER TO APPLICABLE PRESCRIPTIVE CODES & GUIDELINES. WHEN REQUIRED, ONE VENT SHALL BE PROVIDED WITHIN 3 FEET OF EACH CORNER.
 - FOUNDATION CONSTRUCTION AND TIE DOWN REQUIREMENTS FOR HOMES LOCATED IN 90 MPH OR LESS WIND ZONES MAY USE APPLICABLE PRESCRIPTIVE CODES & GUIDELINES UNLESS NOTED OTHERWISE.



Builder: 530 Cavco-Crouse	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Revisions	Scale: 3/16" = 1'-0"	Date: 08/26/2025	Cust: HASH	Prod. Code: B9	Number: 32563B	Order/Plan Number: 2025-1037091	
		Drawn By: BD	Reference: 1BL1013-V		Dir: HBV	Pg.: FD20#		Run:	

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REACTIONS (lb/size)	
8	= 825/0-5-8 (min. 0.1-8)
7	= 517/Mechanical
6	= 0/Mechanical
Max Horz	
8	= 392(LC 12)
6	= -89(LC 18)
Max Uplift	
8	= -438(LC 12)
7	= -440(LC 12)
Max Grav	
8	= 896(LC 3)
7	= 692(LC 3)

Plate Offsets (X,Y)-- [1:0-0-4.0-0-12], [1:0-2-11.0-11-4], [2:0-2-1.0-8-0], [2:0-2-12.0-1-0], [3:0-0-4.0-0-4], [4:0-1-4.0-1-0], [7:0-3-12.0-1-4], [8:0-5-4.0-1-8]

SPACING--: 2-0-0	SPACING--: 1-4-0	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.49 7-8 >371 240	MT20 197/144
TCLL 23.1	TCLL 34.7	Lumber DOL 1.15	BC 0.97	Vert(CT) -0.92 7-8 >199 180	MT18HS 197/144
(Ground Snow=30.0)	(Ground Snow=45.0)	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.00 7-8 n/a n/a	
TCDL 10.0	TCDL 15.0	Code IBC2021/TPI2014	Matrix-R		Weight: 99 lb
BCLL 0.0 *	BCLL 0.0 *				FT = 0%
BCDL 10.0	BCDL 15.0				

LUMBER-
TOP CHORD 2x4 SP No.1 or 2x4 SPF No.2 *Except*
T2: 2x8 SP No.2 or 2x8 SPF No.2, T3: 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x8 SP No.1
WEBS 2x3 SP No.2 or 2x3 SPF Stud *Except*
W3: 2x6 SP No.2 or 2x6 SPF No.2

BRACING-TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) 1=680/0-5-8 (min. 0-1-8), 7=643/Mechanical, 6=0/Mechanical
Max Horz 1=392(LC 12), 6=-89(LC 18)
Max Uplift 1=-359(LC 12), 7=-507(LC 12)
Max Grav 1=742(LC 3), 7=828(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-285/63, 2-3=-371/0, 3-10=-447/30, 4-10=-294/43, 4-5=-160/61, 5-6=-103/73, 7-9=-540/500
BOT CHORD 1-11=-193/209, 8-11=-193/209, 8-12=-193/209, 12-13=-193/209, 7-13=-193/209
WEBS 2-8=-650/756, 4-9=-579/536

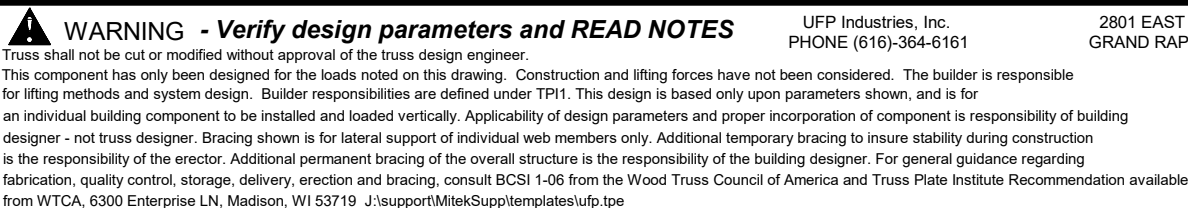
REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
5=128/70/61/0. 9=579/536/209/0

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph @24in o.c.; TCGLD=4.0psf; BCDL=4.0psf; (Alt. 180mph @16in o.c.; TCGLD=6.0psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-8 to 2-5-8, Interior(1) 2-5-8 to 14-10-3 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pg=30.0 psf; Ps=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) See HINGE PLATE DETAILS for plate placement.
- 7) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 8) All additional member connections shall be provided by others for forces as indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 1 and 507 lb uplift at joint 7.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 14) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 15) This truss is designed in accordance with the 2015 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 16) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into use
- 17) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final seat position.
- 18) Based on: HMC88448. Changes: Solid bottom chord.

The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

4/10/2023





UFP INDUSTRIES

Job	Truss	MFG	Customer
112103	HMC88449	315	COMMODORE

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use a design in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.



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2018 North Carolina Energy Conservation Code

Property

HASH
TBD HICKS RD
BROADWAY, NC 27505

Organization

BIS LLC / ECO-FIRST
260-229-9995
BART BROWER

HERS

Confirmed
2025-08-28
Rater ID:6330764

Weather:Raleigh, NC

HBV, HASH, 2025-1037091, .blg

Builder

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Annual Energy Cost

\$/yr

	2018 North Carolina Code	As Designed
Heating	354	305
Cooling	192	155
Water Heating	391	391
SubTotal - Used to Determine Compliance	937	851
Mechanical Ventilation Fan	22	8
Lights & Appliances (minus MechVent)	580	533
Photovoltaics	-0	-0
Service Charge	168	168
Total	1707	1561

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Mandatory Requirements

Annual Energy Cost Check	PASSES
Duct Insulation R-Value Check (per Section 403.3.1)	PASSES
Window SHGC Check (per Section 402.5)	PASSES
Home Infiltration (Section 402.4.2)	PASSES
Duct Leakage (Section 403.3.3)	PASSES
High-Efficacy Lighting (Section 404.1)	PASSES
Mandatory Requirements Check Box (2018 NC IECC)	PASSES

This home **MEETS** the annual energy cost requirements of Section 405 of the 2018 North Carolina Energy Conservation Code based on a climate zone of 4A. In fact, this home surpasses the requirements by 9.2%.

Name | BART BROWER

Signature | *Bart K. Brower*

Organization | BIS LLC / ECO-FIRST

Date | 28 August 2025

In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set equal to those in the design home as specified in the 2018 NC IECC. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.

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TBD HICKS RD	260-229-9995	2025-08-28
BROADWAY, NC 27505	BART BROWER	Rater ID:6330764
Weather: Raleigh, NC	Builder	
HBV, HASH, 2025-1037091, .blg	HOMES BY VANDERBUILT	

Property/Builder Information

Building Name	
Owner's Name	HASH
Property Address	TBD HICKS RD
City, St, Zip	BROADWAY, NC 27505
Phone Number	
Builder's Name	HOMES BY VANDERBUILT
Phone Number	
Email Address	
Plan/Model Name	2025-1037091
Community/Development	
Identifier/Other	

Organization Information

Organization Name	BIS LLC / ECO-FIRST
Address	2139 PHILADELPHIA STREET
City, St, Zip	SANFORD, NC 27332
Phone Number	260-229-9995
Website	

Rating/RESNET Information

Last Field Insp	2025-08-28
Rating Type	Confirmed
Reason for Rating	New Home
Rating Number	
Rating Permit Date	01/01/2021
Provider ID	1998-157
Sample Set ID	0000
Registry ID	
Registry Date Registered	
Rater's Name	BART BROWER
Rater's ID	6330764
Rater's Email	



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Building Summary

Property HASH TBD HICKS RD BROADWAY, NC 27505	Organization BIS LLC / ECO-FIRST 260-229-9995 BART BROWER	HERS Confirmed 2025-08-28 Rater ID:6330764
Weather: Raleigh, NC HBV, HASH, 2025-1037091, .blg	Builder HOMES BY VANDERBUILT	

General Building Information

Area of Conditioned. Space(sq ft)	1680
Volume of Conditioned. Space	13440
Year Built	2025
Housing Type	Single-family detached
Level Type(Apartments Only)	None
Floors on or Above-Grade	1
Number of Bedrooms	3
Foundation Type	Enclosed crawl space
Foundation is w/in Infiltration Volume:	N/A
Enclosed Crawl Space Type	Operable Vents
Number of Stories Including Conditioned Basement	1
Thermal Boundary Location	REM Default

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Builder

HOMES BY VANDERBUILT

Foundation Wall Information

Name	Library Entry	Location	Length(ft)	Total Height(ft)	Depth	Height	Uo Value Combo*	Uo Value wall only
					Below Grade(ft)	Above Grade(ft)		
FOUNDATION	Uninsulated	Enclsd crwl--- ambient/grnd	172.00	3.00	1.00	2.00	0.544	1.504

* Uo Value Combo combines wall, airfilm, and soil path

Foundation Wall Library List

Foundation Wall: Uninsulated

Type	Solid concrete or stone
Thickness(in)	8.0
Studs	None
Interior Insulation	
Continuous R-Value	0.0
Frame Cavity R-Value	0.0
Cavity Insulation Grade	3
Ins top	0.00 ft from top of wall
Ins Bottom	0.00 ft from bottom of wall
Exterior Insulation	
R-Value	0.0
Ins top	0.00 ft from top of wall
Ins bottom	0.00 ft below grade
Note	

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Frame Floor Information

Name	Library Entry	Location	Area(sq ft)	Uo Value
FLOOR	R-30	Cond--- enclsd crwl	1680	0.034

Frame Floor Library List

Floor: R-30

Information From Quick Fill Screen

Continous Insulation R-Value	0.0
Cavity Insulation R-Value	30.0
Cavity Insulation Thickness (in.)	10.0
Cavity Insulation Grade	1
Joist Size (w x h, in)	1.5 x 11.5
Joist Spacing (in oc)	16.0
Framing Factor - (default)	0.1300
Floor Covering	CARPET
Note	

Rim and Band Joist Information

Name	Location	Area (sq ft)	Continuous Ins	Framed Cavity Ins	Cavity Ins Thk(in)	Joist Spacing	Insulation Grade	Uo Value
RIM	Cond--- ambient	142.80	0.0	30.0	9.5	16.0	1	0.034

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Above-Grade Wall

Name	Library Entry	Location	Exterior Color	Area(sq ft)	Uo Value
AGW	R-19 24" Stud	Cond--- ambient	Medium	1376.00	0.059

Above-Grade Wall Library List

Above-Grade Wall: R-19 24" Stud

Information From Quick Fill Screen

Wall Construction Type

Standard Wood Frame

Continuous Insulation (R-Value)

0.0

Frame Cavity Insulation (R-Value)

19.0

Frame Cavity Insulation Thickness (in)

5.5

Frame Cavity Insulation Grade

1

Stud Size (w x d, in)

1.5 x 5.5

Stud Spacing (in o.c.)

24.0

Framing Factor - (default)

0.1988

Gypsum Thickness (in)

0.6

Note

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Window Information

Wall Assignment						Overhang			Interior		Adjacent	
Name	Orient	U-Value	SHGC	Area (sqft)	Operable	Depth (ft)	To Top (ft)	To Btm (ft)	Winter Shading	Summer Shading	Winter Shading	Summer Shading
AGWall 1												
RIGHT	South	0.340	0.230	4.70	Yes	1.0	1.5	6.5	0.85	0.70	None	Some
FRONT	East	0.340	0.230	89.00	Yes	1.0	1.5	6.5	0.85	0.70	None	Some
REAR	West	0.340	0.230	30.30	Yes	1.0	1.5	6.5	0.85	0.70	None	Some

Door Information

Name	Library Entry	Wall Assignment	Opaque Area(sq ft)	Uo Value	R-Value of Opaque Area	Storm Door
FRONT DOOR	DOOR 3882	AGWall 1	40.0	0.187	4.4	No

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Roof Surface Information

	Exterior	Solar	Infrared	Cement or	Roof Tile	Radiant
Name	Color	Absorptance	Emittance	Clay Tiles	Ventilation	Barrier Grade
CEILING	Medium	0.75	0.90	No	No	None

Ceiling & Attic Information

Name	Library	Type	Ceiling Area(sq ft)	Ceiling Uo	Roof Area (sq ft)	Roof Uo	Attic Vent Area(sq ft)	Roof Pitch
CEILING	R-38 BLOWN 3.5 TRUSS	Attic	1680.00	0.026	2100.00	N/A	5.60	N/A

Roof Library List

Ceiling: R-38 BLOWN 3.5 TRUSS

Information From Quick Fill Screen

Continous Insulation (R-Value)	29.0
Cavity Insulation (R-Value)	9.0
Cavity Insulation Thickness (in)	3.5
Cavity Insulation Grade	1
Gypsum Thickness (in)	0.500
Insulated Framing Size(w x h, in)	1.5 x 3.5
Insulated Framing Spacing (in o.c.)	24.0
Framing Factor - (default)	0.1100
Ceiling Type	Attic
Note	

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Builder

HOMES BY VANDERBUILT

Mechanical Equipment

Number of Mechanical Systems	2
Heating SetPoint(F)	68.0
Heating Setback Thermostat	Present
Cooling SetPoint(F)	78.0
Cooling Setup Thermostat	Present
DHW SetPoint(F)	125.0

Space Conditioning Information

Type	Library Entry	Location	Performance	Load Served %			Mech Vent
			Adjustment %	Heating	Cooling	Dehumid	Precond
ASHP:	30k 15.2 S2, 7.8 H2	Conditioned space	100.0	100.0	100.0	0.0	No

Space Conditioning Library List

ASHP: 30k 15.2 S2, 7.8 H2

Fuel Type	Electric
Heating Seasonal Efficiency	7.80 HSPF2
Compressor Heating Output Capacity at 17F (kBtuh)	22.0
Compressor Heating Output Capacity at 47F (kBtuh)	30.0
Electric Resistance Backup Capacity (kW)	5
Cooling Output Capacity (kBtuh)	30.0
Cooling Seasonal Efficiency	15.20 SEER2
Desuperheater	No
Note	
Location	Conditioned space
Performance Adjustment	100
Shared MechVent Preconditioning	FALSE
Percent Heating Load Served	100
Percent Cooling Load Served	100

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HOMES BY VANDERBUILT

DHW Information

Library Entry	Location	Performance	Load Served %			Dwell Units Served
		Adjustment %	Fixtures	Dishwasher	Clothes Washer	
40 gal. 0.95EF Elec	Conditioned space	100.0	100.0	100.0	100.0	1

DHW Library List

DHW: 40 gal. 0.95EF Elec

Water Heater Type	Conventional
Fuel Type	Electric
Energy Factor	0.95
Recovery Efficiency	0.98
Water Tank Size (gallons)	40
Extra Tank Insulation (R-Value)	0.0
Note	
Location	Conditioned space
Performance Adjustment	100
Shared MechVent Preconditioning	FALSE
Dwelling Units Served	1
Fixtures Percent Load Served	100
Dishwasher Percent Load Served	100
Clothes Washer Percent Load Served	100

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DHW Efficiencies

All bath faucets & showers <= 2gpm	true
All DHW pipes fully insulated >= R-3	false
Recirculation type	None (standard system)
Farthest fixture to DHW heater	60
TOTAL Pipelength for longest DHW run	70
DWHR unit present?	false
HWDS Compactness Factor(IECC 2021	0.00
DHW Diagnostics	
dhwGpd	42.59
peRatio	0.76
dishwasherGpd	1.92
clothesWasherHotWaterGPD	4.41
EDef	0.96
ewaste	26.27
tmains	65.50
dwhrWhInletTempAdj	0.00
pumpConsKwh	0.00
pumpConsMmbtu	0.00

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Builder
HOMES BY VANDERBUILT

Duct Systems

Name	DUCTS
Conditioned Floor Area(sq ft)	1680.0
# of Returns	2
Heating System	30k 15.2 S2, 7.8 H2
Cooling System	30k 15.2 S2, 7.8 H2
Supply Duct Surface Area(sq ft)	453.6
Return Duct Surface Area(sq ft)	168.0
No bldg cavities used as ducts	FALSE

Type	Location	Percent Location	R-Value
Supply	Enclosed crawl space	100.0	8.0
Return	Enclosed crawl space	100.0	8.0

Test Exemptions

IECC	FALSE
RESNET 2019	FALSE

Duct Leakage

Input Type	Measured
Test Type	Total Duct Leakage
Duct Test Stage	Postconstruction Test

	LtO (based on Total DL)	Total Duct Leakage
Supply & Return	67.00 CFM @ 25 Pascals	67.00 CFM @ 25 Pascals
Supply Only	Not Applicable	
Return Only	Not Applicable	

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Building Summary

Property HASH TBD HICKS RD BROADWAY, NC 27505	Organization BIS LLC / ECO-FIRST 260-229-9995 BART BROWER	HERS Confirmed 2025-08-28 Rater ID:6330764
Weather: Raleigh, NC HBV, HASH, 2025-1037091, .blg	Builder HOMES BY VANDERBUILT	

HVAC Commissioning			
Name	CX-1		
Is Commissioned	No	Total Duct Leakage	
Duct System	1: DUCTS	ACCA 310 test exemption claimed?	false
Heating Equipment	NA	Grade I met via ANSI/ACCA 5QI	false
Cooling Equipment	NA	Duct Grade	III
Blower Fan		Refrigerant Charge	
Airflow Exception	false	Single Packaged System?	false
Design-specified airflow Qdesign	180	Met ANSI/ACCA5QI section 4.3.1?	false
Measured airflow Qop	200	Refrigerant Grade	III
Airflow Grade	III	Test Medhod	Not Applicable
Power at operating conditions Wfan	200		
Blower Fan Efficiency	0.000		
Watt Draw Grade	III		

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Infiltration

Whole Dwelling Infiltration	
Input Type	Blower door
Heating Season Infiltration Value	890 CFM @ 50 Pascals
Cooling Season Infiltration Value	890 CFM @ 50 Pascals
Shelter Class	4
Code Verification	Tested
Ventilation Strategy for Cooling	
Cooling Season Ventilation	Natural Ventilation
WHF Rated Flow	NA
WHF Watts	NA

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Mechanical Ventilation

Name	Shared Multifamily System	false
Type	Supply Only	
Unable to Measure	false	
Delivered CFM	160	
Adj. Sensible Recovery Efficiency (%)	0.00	
Adj. Total Recovery Efficiency (%)	0.00	
Hours Per Day	9.8	
Fan Power (watts)	20.0	

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Lights and Appliances

Rating/RESNET audit

Ceiling Fan

Number In Home:	0
Average CFM / Watt	0.00

Refrigerator

Location	Conditioned
Label Energy Rating	702 kWh/yr

Range Oven

Location	Conditioned
Fuel Type	Electric
Induction Range	No
Convection Oven	No

Dishwasher

Location	Conditioned
Preset	Specific EnergyGuide label
Dhw Equipment	N/A
Capacity	Standard
Dishwasher LER	270 kWh/yr
Electricity Rate	0.1200 \$/kWh
Gas Rate	1.09 \$/therm
Annual Gas Cost	22.23 \$/yr
Loads Per Week	4

Clothes Dryer

Location	None (ERI Default)
Fuel Type	Electric
Dwelling Units Per Dryer	N/A
CEF	3.73

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Lights and Appliances

Clothes Washer

Location	None (ERI Default)
Preset	ERI Ref 2006
Dwelling Units Per Washer	N/A
Dhw Equipment	N/A
IMEF	1.000
IWF	11.400
Capacity	3.000 Cu. Ft
Label Energy Rating	400 kWh/yr
Electricity Rate	0.1200 \$/kWh
Gas Rate	1.09 \$/therm
Annual Gas Cost	27.00 \$/yr
Loads Per Week	6

Qualifying Light Fixtures

Interior Lights %	100.0
Exterior Lights %	100.0
Garage Lights %	0.0
Interior LEDs %	0.0
Exterior LEDs %	0.0
Garage LEDs %	0.0

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HBV, HASH, 2025-1037091, .blg	HOMES BY VANDERBUILT	

Mandatory Requirements

IECC Requirements

Verified IECC 06	true	Verified NY-ECCC 2020	false
Verified IECC 09	true	Verified IECC MI	false
Verified IECC 12	true	Verified IECC NC 2018	true
Verified IECC 15	true	Verified NGBS 2015	false
Verified IECC 18	false	Verified IECC 21	false

EPA Requirements

Rater certifies that the home complies with the following requirements for:

None

ENERGY STAR Version 3 Appliances

Amount

Refrigerators	0
Ceiling Fans	0
Exhaust Fans	0
Dishwashers	0

ENERGY STAR Multi-Family Checks

Apt or Townhome uses 'Class AW' Windows. NA

ENERGY STAR Version 3 Basements

Basement Wall Area 50% Below Grad: false

Basement Floor Area 0.00

Slab Insulation Exemption:

false

Indoor airPlus Verification Checklist

false

EPA Field App ID

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DOE Zero Energy Ready Home

Home Builder ID Number

Passive House Certified false

Mandatory Requirements

Verified Fenestration false

Verified Insulation false

Verified Duct Location false

Verified Appliance false

Verified Lighting false

Verified Fan Efficiency false

Verified Water Efficiency false

Verified EPA Indoor airPLUS false

Verified Renewable Energy Ready Solar Electric false

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Optional Home Builder Commitments for Recognition

Certified under the EPA WaterSense for New Homes Program No

Certified under the IBHS fortified for Safer Living Program No

Followed the DOE Zero Energy Ready Home Quality Management Guidelines No

The buyer of this home signed a waiver giving DOE Zero Energy Ready Home access to utility bill data for one year. No

Active Solar

System Type None

Collector Loop Type None

Collector Type None

Collector Orientation None

Area(sq ft) 0.0

Tilt(degrees) 0.0

Volume(cu ft/gal) 0.0

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NORTH CAROLINA

MODULAR PLANS REVIEW CHECKLIST

PAGE 2 of 3

REVISED 1-30-2025

Plan Sheet Page # and NOTES

MECHANICAL

Design calculations
 Installed unit capacity
 Supply and returns (locations and sizes)
 Duct sizes
 Specifications (units, ducts)
 All appliances furnished by mfg. shown on plans

ELECTRICAL

Plan
 Location of all electrical boxes
 Electrical panel location
 Note regarding main disconnect (if applicable)
 Exterior lighting and receptacles
 Ground level receptacles (if applicable)
 Smoke detector location(s)
 Electrical load calculations
 Electrical panel layout (breaker and wire sizes, circuit schedule)
 Panel and service entrance sizes
 All fixtures furnished by mfg. shown on plans

ACCESSIBILITY

(for other than 1 & 2 family dwellings)

Entrances and means of egress
 Doors, doorways, and door hardware
 Stairs and handrails
 Toilet rooms, plumbing fixtures, grab bars, etc
 Bathrooms and shower rooms
 Occupancy specific requirements
 Multi-family dwellings: Type A and B units

FLOOR X-SECTION

Joists and beam sizes and spacing
 Materials species and grade
 Sheathing, decking, and concrete as applicable
 Fastening instructions
 Insulation
 Details as required for clarification

WALL X-SECTION

Stud and column sizes and spacing
 Materials species and grade
 Sheathing and bracing
 Headers and lintels
 Finishes
 Fastening instructions
 Insulation
 Details as required for clarification

<u>NORTH CAROLINA</u>		
<u>MODULAR PLANS REVIEW CHECKLIST</u>		
	PAGE 3 of 3	REVISED 1-30-2025
	Plan Sheet Page # and NOTES	
<u>CEILING / ROOF X-SECTION</u>		
	Truss, rafter, and beam spacing	
	Lumber species and grade	
	Sheathing and decking	
	Finishes	
	Fastening instructions	
	Insulation	
	Details including NC sealed truss designs or manual reference	
<u>FOUNDATION PLAN</u>		
	Footings, pier, and curtain wall locations and specifications	
	X-sections with dimensions	
	Anchorage - sill plate to piers and curtain wall	
	Anchorage - building to sill plate	
	Anchorage - tie downs (lateral and longitudinal)	
	Soil bearing capacity	
	Minimum concrete compressive strength	
	Mortar type	
	Ventilation requirements (with and without vapor barrier)	
	Crawl space access requirements	
<u>ENERGY COMPLIANCE</u>		
	Demonstrated compliance	
<u>SET-UP INSTRUCTIONS</u>		
	Floor and ceiling connections	
	Marriage wall connections	
	Roof set-up and connection	
	Plumbing connections	
	Mechanical connections	
	Electrical connections	
	Fire stopping	
	Air infiltration elimination	
	Notice to inspections department attachment if set-up instructions are by attachment	
<u>ITEMS NOT INSPECTED IN PLANT</u>		
	List of items not inspected by 3rd. Party	
	Notice to inspections department	