

TESTING • INSPECTION • ENGINEERING

305 N. OAKLAND AVE. ● P.O. BOX 490 ● NAPPANEE, IN 46550 ● P: 574.773.7975 ● F: 574.773.2732 ● ICC-NTA.ORG

January 24, 2025

Mr. Shane Phelps NC Dept. of Insurance Manufactured Building Division 1202 Mail Service Center Raleigh, NC 27699-1202

Re: R-Anell Housing Group

Model Submittal 3R2202-R33-NC

Dear Mr. Phelps:

Attached please find one (1) copy of each of the above-mentioned projects for your review. This project has been reviewed by NTA and found to be in compliance with the North Carolina State requirements.

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

Sincerely,

Luke Lehman

Luke Lehman Account Manager ICC NTA, LLC





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 Code
2018 North Carolina Mechanical Code
2018 North Carolina Plumbing Code
2018 North Carolina Fuel Gas Code
.

Project Location:

TBD Lucas Street Harnett, NC 28339 HARNETT County

Occupancy:

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

Design Load:

Insulation

Reference RESCheck for Requirements.

Attention Local Inspection Departments:

- 1. 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.
- 2. 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) The following items are omitted: furnace, heat ducts, and ceiling room to room return air jumpers.
- 3. Site installed furnace must meet IECC Energy Efficiency Certificate if applicable.
- 4. This unit must be connected to a public water supply and sewer system if these are available.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. Where required, window protection designed and provided on site by others to meet applicable local codes.

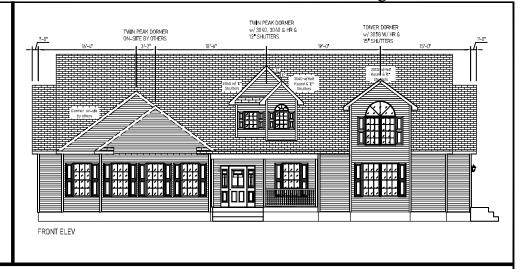
Model: 3R2202-R33

Customer: Strickland Builder: HBV

Manufacturer:

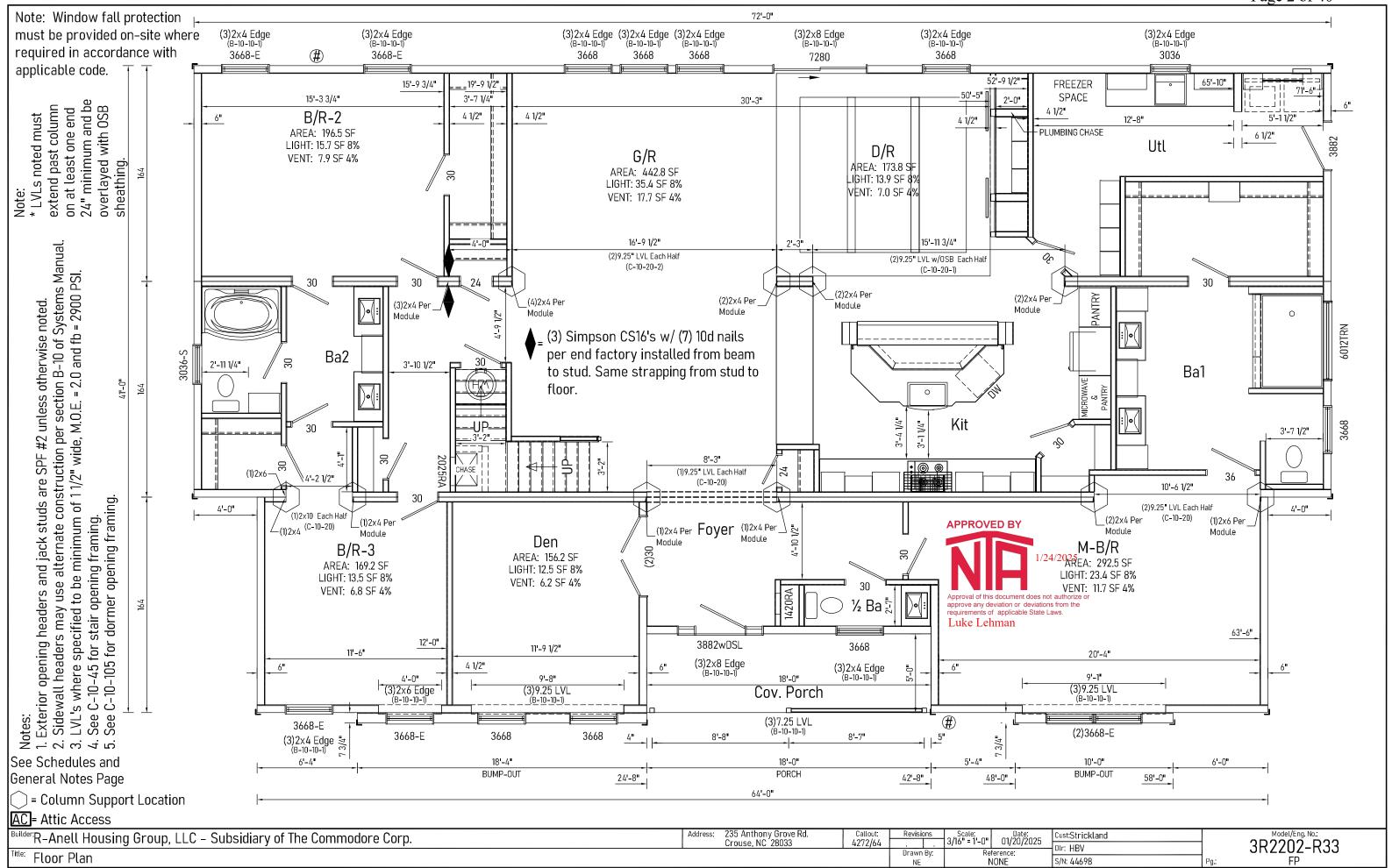
R-Anell Housing Group, LLC

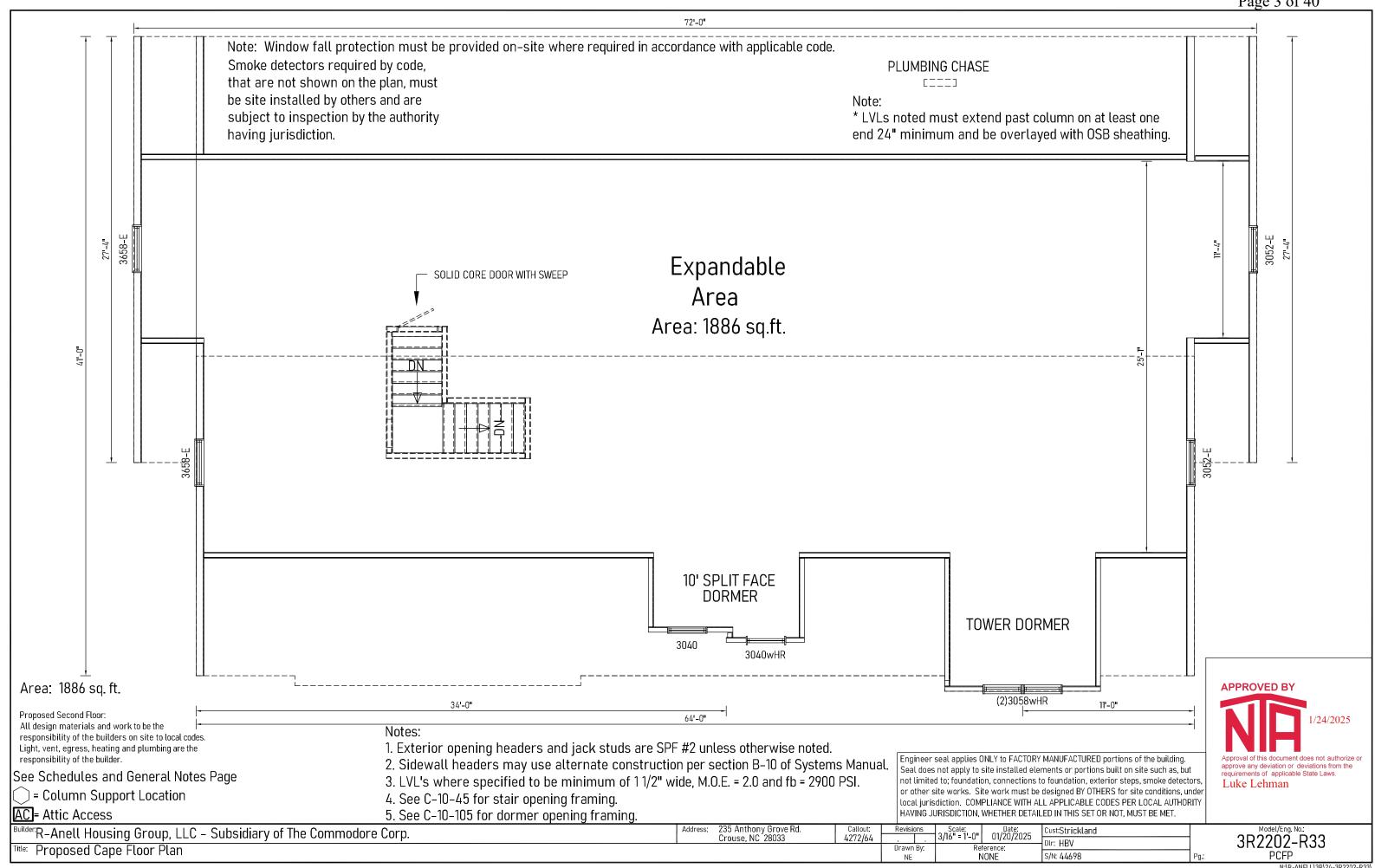
Commodore Homes, LLC 235 Anthony Grove Rd. Crouse, NC 28033

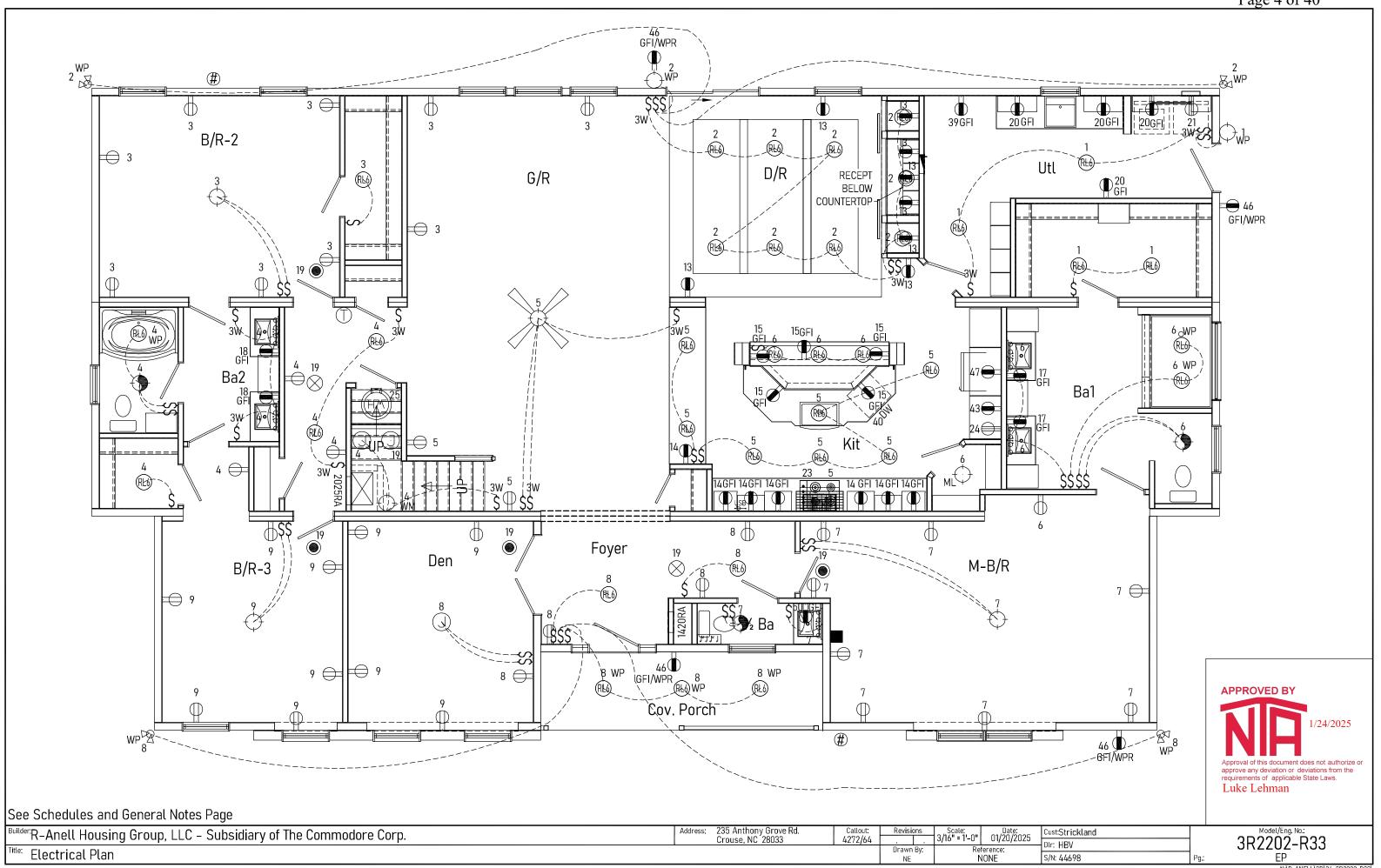


Drawing Index	
Title	Page
Cover	CV
Floor Plan	FP
Proposed Cape Floor Plan	PCFP
Electrical Plan	EP
Schedules and General Notes	NG
Elevations	EL
Cross Section	XS
Cross Section 2	XS-2
Hot Water Lines	WH
Cold Water Lines	WC
DWV System	DL
DWV Notes	DN
Supply Air Ducts - Perimeter Registers	SP
Ceiling Return Air System	HR
Braced Walls-Prescriptive	BWP
Foundation 2x10 Marriage Line without Stair	FD20#
Manual J Calculations	ATTACHED
ResCheck	ATTACHED
UFP Rigid Collar Tie Connection Details	UFP-EB05-02
Truss Diagram	ATTACHED









		Mo	del#	LEGEND	CIRCUIT		
Optional Method Load Calculation for One-Fam	ily Dwellings		02-R33	ELOLIND	ID NO.	LOAD	A
1 General Lighting and Receptacle Loads 220.82(B)(1) 3	x 4657 =			☐ =15 AMP ☐ =15 AMP ☐ =20 AMP ☐ =20 AMP ☐ FLOOR RECPT ☐ FLOOR RECPT ☐ FLOOR RECPT	1-12	General Lighting/Receptacles	
Do not include open porches, garages, or unused or (ft² usin	g outside dimensions)	1	13971		13-16	Small Appliance	
unfinished spaces not adaptable for future use.				=SWITCHED	17-18	Bath (GFCI)	┷
2 Small-Appliance Branch Circuits 220.82(B)(2) 1500	x 3 =				19	Smoke Alarms (AFCI)	
At least two small-appliance branch circuits must be (r	minimum of two)	2	4500		20	Laundry	┷
included. 210.11(C)(1)				18" FLOURESCENT 48" FLOURESCENT 24" STRIPLIGHT CHAIN LIGHT	21	Electric Dryer	+
3 Laundry Branch Circuits(s) 220.82(B)(2) 1500	x 1 =			A SASSA CF -PULL CHAIN LIONI	22	Electric Range	_
At least one laundry branch circuit must be included. (r	minimum of one)	3	1500	=UNDER CABINET LIGHT / WALL LIGHT = JUNDER CABINET STEREO	23	Electric Cooktop	+-
210.11(C)(2)	,			S -SWITCH S DM -DIMMER SWITCH S SW =3-WAY SWITCH S 3DM =3-WAY DIMMER SWITCH	24	Electric Wall Oven Electric Wall Oven	+
4 Appliances 220.82(B)(3) and (4) Do NOT include any heating or	Total volt-amps of				25	Electric W/H	+-
Use the nameplate rating of all A/C equipment in this section.	all app. LISTED BLEOW	4	32900	STANDARD VENT () = WIRE - = DOORBELL 『リチリー・CHIMES	25.1	Tankless W/H	+-
appliances (fastened in place,	a app. 2.0.25 522011		52500	`	26	Gas Furnace	+-
permanently connected, or (1) Electric H_2O Heater 4.5 KVA	(5) Vent Fans	1.5	KVA	- STANDARD - STANDARD - STANDARD - STANDARD - STANDARD FAN W/LIGHT	27	Electric Furnace	6
connected to a specific circuit), (1) Electric Dryer 5.4 KVA	(1) Microwave		5 KVA	\lor \lor	21	Electric Furnace	6
ranges, ovens, cooktops, motors, (1) Electric Cooktop 7.4 KVA	(1) Dishwashe		5 KVA	■ =PHONE SACK ■ =TV SUNCTION BOX (#) =HOSE BIBB	28-37	Electric BB Heat	+-
and clothes dryers. Convert any (1) Electric Wal Oven (S) 3.6 KVA	(1) Freezer		5 KVA	GFI =GROUND FAULT CIRCUIT INTERRUPTER \$\(\) =BULLET \$\(\) =PANEL BOX	38	A/C	+
nameplate rating given in amperes (0) Electric Wal Oven (D) 0 KVA	(1) Refrigerato		5 KVA	<u> </u>	39	Freezer	+
to volt-amperes by multiplying (3) Bath Circ's 4.5 KVA	(1) Kenigerato	1.3	KVA	WP =WET LOCATION ⊕=SPEAKER =AV JACK □ =MEDIA RECEPT	40	Dishwasher	\top
			-KVA	● =IONIZATION SMOKE ALARM	41	Disposal (GFCI)	
the amperes by the rated voltage. 5 Apply 220.82(B) demand factor to the total of lines 1 through 4.					42	Whirlpool Tub (GFCI)	
	7148 + 10,000 =	27	7148	SA - SMOKE CO MEMINI SA LE - LINOLOFFE CLUIC SMOKE CO MEMINI 600 - CO MEMINI	43	Microwave Oven	
	7146 + 10,000 =		140		44	Garage (GFCI)	
(total of lines 1-4)	tric hooting aguinment fo	h+ n		1	46	Exterior Receptacles	15 (0
	tric heating equipment fo				47	Refrigerator	
	ump compressor(s) at 100	•			50	Bath (GFCI)	
	nted from operating with the	e suppiemeni	tai neat,				
a) Air-conditioning and cooling systems, including heat omit the compressor			0	1			
pumps without any supplemental electric heating: 0	x 65 % = c)		U	1			
,	ting equipment, if fewer t	man lour					
b) Electric thermal storage & other heating systems where seperately control		12	1000	-			
the usual load is expected to be continuous at full 20000	x 65 % = d)		3000	If an attached garage is to be added to this home, the entran	ce door	to the home from the garage	е
	ting equipment, if four or	more		must be a self-closing fire rated door per applicable code.		ŭ ŭ	
shall not be figured under any other selection in 220.82(C). seperately control		1		Clothes dryer vents may need to be completed to the exterio	r of the	home on site. Refer to secti	ions
0 x 100% = b) 0 0	x 40 % = e)		0	of applicable local codes and to Section 8 of the home instal			
7 Total Volt-Ampere 13000 + 27148 Demand Load: (Largest VA rating, 6a - 6e) (Line 5)	- = 7	40	148	dryer ventilation as necessary.	icacion in	andat for rodali od oomptotte	J11 01
8 Minimum Amperes	Minimum Size			1			
Divide the total volt- 40148 ÷ 240 = 168	9 Service or	200 Amp	s Installed				
amperes by voltage. (line 7) (voltage) (min. amperes							
10 Size the Service or Feeder Conductors . Use 310.15(B)(6) to find the service condu	<u>'</u>	2/0 0	Copper	1			
up to 400 amperes. Ratings in excess of 400 amperes shall comply w/ Table 310.16.		· ·	OR				
310.15(B)(6) also applies to feeder conductors serving as the main power feeder.	Conductors	_	uminum				
. , , , , , , , , , , , , , , , , , , ,		., ., ., .,		4			

	[amailin]				
	CIRCUIT ID NO.	LOAD	AMPS	POLES REQ'D	WIRE SIZE
=20 AMP FLOOR RECPT	1-12	General Lighting/Receptacles	15	1	NM14-2/WG
	13-16	Small Appliance	20	1	NM12-2/WG
PROOF ENCLOSURE WITH	17-18	Bath (GFCI)	20	1	NM12-2/WG
RESISTANT RECPT	19	Smoke Alarms (AFCI)	15	1	NM14-2/WG
ED 4" RLD =RECESSED 6" HT LED LIGHT	20	Laundry	20	1	NM12-2/WG
	21	Electric Dryer	30	2	NM10-3/WG
→ ^{PC} =PULL CHA i n Light	22	Electric Range	50	2	NM6-3/WG
=UNDER CABINET STEREO	23	Electric Cooktop	40	2	NM8-3/WG
•	24	Electric Wall Oven	20	2	NM12-2/WG
3DM=3-WAY DIMMER SWITCH		Electric Wall Oven	40	2	NM8-2/WG
RBELL [フュフュ=CHIMES	25	Electric W/H	25	2	NM10-2/WG
KDETT [111]=CUIME2	25.1	Tankless W/H	20	1	NM12-2/WG
=STANDARD FAN	26	Gas Furnace	15	1	NM14-2/WG
w/LIGHT	27	Electric Furnace	60/30	4	NM4-2/WG
CTION BOX # =HOSE		Electric Furnace	60/60	4	NM4-2/WG
CTION BOX # =HOSE BIBB	28-37	Electric BB Heat	20	2	NM12-2/WG
=PANEL BOX	38	A/C	50	2	NM6-2/WG
	39	Freezer	20	1	NM12-2/WG
■ =MEDIA RECEPT	40	Dishwasher	15	1	NM14-2/WG
F = FIRE EXTINGUISHER	41	Disposal (GFCI)	15	1	NM14-2/WG
ALARM	42	Whirlpool Tub (GFCI)	20	1	NM12-2/WG
IEARIN 60 OO AEARN	43	Microwave Oven	20	1	NM12-2/WG
	44	Garage (GFCI)	20	1	NM12-2/WG
	46	Exterior Receptacles	15 (Opt. 20)	1	NM14-2/WG (Opt. NM12-2/WG)
	47	Refrigerator	20	1	NM12-2/WG
	50	Bath (GFCI)	20	1	NM12-2/WG

DOOR SCHEDULE Design R/O SF | Light | Vent Description Label Load 3882 9 Lite Exterior Door 20.76 +50/-50 7280 Sliding Patio Door 40.00 32.88 16.06 +50/-50 3882 Hinged - Exterior - 1/2 Lite - 12in DSL | 3882wDSL | 37.64 9.35 20.76 +20/-20 14.90 0.00 0.00 NA 24 Hinged Interior Door 36 Hinged Interior Door 21.77 0.00 0.00 NA 35.74 0.00 0.00 NA 18.33 0.00 0.00 NA (2) 30 Interior Doors 30 Hinged Interior Door

> **STAIRWAYS** RISER HEIGHT - 8 1/4" MAX. TREAD DEPTH - 9" MIN. HEAD ROOM 80" MIN.

NOTE: THE STAIRWELL GEOMETRY IN THIS HOME HAS BEEN DESIGNED TO THE CRITERIA ABOVE. IF MORE STRINGENT STAIR GEOMETRY IS REQUIRED OR DESIRED, PLEASE CONTACT THE PLANT OF MANUFACTURE FOR PLAN ADJUSTMENTS.

ELECTRICAL PLAN NOTES BASED ON NEC 2017

- ALL KITCHEN AND BATHROOM COUNTER RECEPTS TO BE GFCI PROTECTED.
- ALL CLOSET LIGHTS TO BE ENCLOSED SURFACE MOUNT FIXTURES. 12" MIN FROM STORAGE SPACE
- ALL RECEPTS TO BE GROUNDING TYPE, PER 406.4/NEC.
- SPECS, WIRING, INSTALLATIONS, ETC. TO COMPLY WITH NEC REGULATIONS.

Dir: HBV

NONE

S/N: 44698

- SERVICE PANEL MAY BE LOCATED IN GARAGE.
- ALL SMOKE ALARMS TO HAVE BATTERY BACK-UP AND TO BE INTERCONNECTED WITH A 14 GA, MIN. INTERCONNECTION WIRE, 14-3 CABLE, OR EQUIVALENT PER MFG.S RECOMMENDATIONS.
- EXTERIOR LIGHT AT GARAGE SIDE MAY BE REPLACED.
- GAS APPLIANCES MAY BE SUBSTITUTED FOR ELECTRIC APPLIANCES WHERE APPLICABLE. WHEN GAS APPLIANCES ARE INSTALLED, ALL GAS PIPING, CONNECTIONS, HOOK-UPS, ETC, TO BE INSTALLED ON SITE BY OTHERS. THE OPTIONAL GARBAGE DISPOSAL CONNECTED TO INDEPENDENT RECEPTACLE AND WALL SWITCH.
- 200 AMP PANEL BOX INSTALLED
- ALL 120v GENERAL USE RECEPTS ARE TAMPER RESISTANT UNLESS MOUNTED AT LEAST 66* ABOVE FLOOR, OR ARE PART OF A LISTED LIGHT FIXTURE OR APPLIANCE, OR WHERE CORD & PLUG APPLIANCE IN DEDICATED SPACE IS NOT EASILY MOVED FOR USE.
- ALL EXTERIOR RECEPTACLES ARE GFI, TAMPER RESISTANT AND LISTED FOR WET LOCATIONS.
- COMBINATION TYPE AFCI BREAKERS ARE REQUIRED FOR ALL 120 V CIRCUITS EXCEPT THOSE SERVING BATHROOMS, GARAGE, LAUNDRY AREAS, KITCHENS, UNFINISHED BASEMENTS AND OUTDOORS.
- ALL ELECTRICAL BOXES SUPPORTING LIGHTING FIXTURES MUST BE RATED @ 50# AND IDENTIFIED ON THE BOX. WHIRLPOOL RECEPTACLES MUST BE GFCI, TAMPER RESISTANT AND READILY ACCESSIBLE PER NEC 680.71
- A CIRCUIT BREAKER LOCKING DEVICE SHALL BE PROVIDED TO LOCK THE APPLICABLE BREAKERS IN THEIR "OFF" POSITION. THIS APPLIES TO CIRCUIT BREAKERS WHICH SERVE AS THE DISCONNECT FOR ELECTRIC WATER HEATERS, ELECTRIC BASEBOARD HEATERS, AND ANY APPLIANCE RATED OVER 300 WATTS OR 1/8 HORSEPOWER, WHICH ARE NOT LOCATED WITHIN CLEAR SIGHT OF THEIR DISCONNECT
- A RECEPTACLE OUTLET IS REQUIRED FOR PORCHES, BALCONIES OR DECKS WHICH ARE ACCESSIBLE FROM THE INSIDE OF THE DWELLING UNIT REGARDLESS OF THE SIZE OF THE PORCH, BALCONY OR DECK.

 NON-SWITCHED CIRCUIT NEUTRAL CONDUCTOR MUST BE PRESENT AT EACH WALL SWITCH. RE-IDENTIFIED CONDUCTORS WITH WHITE,
- GREY OR THREE STRIPE INSULATION MAY ONLY BE USED AS SUPPLY TO SWITCH AND NOT FOR HOT RETURN TO FIXTURE.
- 120√ 15 OR 20 AMP RECEPTS LOCATED WITHIN 6' FROM ANY DWELLING UNIT SINK MUST BE GFCI PROTECTED.
- IF THE PERIMETERS OF THE AREAS OF THE ON-SITE INSTALLED STOOPS, PORCHES OR DECKS ARE NOT UNDER THE EXTERIOR ELECTRICAL RECEPTACLES SHOWN IN THE ELECTRICAL FLOOR PLAN, THEN ADDITIONAL RECEPTACLES SHALL BE SITE INSTALLED WITHIN THESE AREAS BY THE CONTRACTOR.

REFER TO RESCHECK FOR DOOR AND WINDOW U-VALUES

FOR PERMANENTLY CONNECTED APPLIANCES RATED AT OVER 300 VOLT-AMPERES OR 1/8 HP,THE BRANCH CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS WHERE THE CIRCUIT BREAKER IS WITHIN SIGHT FROM THE APPLIANCE OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION. THE LOCKING MEANS SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED. MAIN DISCONNECT SHALL BE LOCATED ON THE EXTERIOR OF THE HOME.

WINDOW SCHEDULE

Schedules and General Notes

AT LEAST ONE EGRESS WINDOW IS REQUIRED FOR EACH SLEEPING AREA WHERE NO EXTERIOR EXIT DOOR EXISTS.

S SUFFIX DENOTES SAFETY GLAZING / E SUFFIX DENOTES EGRESS

Label	Width R/O	Height R/O	R/O SF	Light	Vent	Room SF	U Value	Egress	Design Load	SHGC w/o Grids
						· ·				
(2)3668-E	73	68.5	34.73	28.01	13.84	346.00	0.34	Yes	+50/-50	0.23
3036	30.5	36.5	7.73	5.50	2.64	66.00	0.34	No	+50/-50	0.23
3036-S	30.5	36.5	7.73	5.50	2.64	66.00	0.34	No	+50/-50	0.23
3668	36.5	68.5	17.36	14.00	6.92	173.00	0.34	Yes	+50/-50	0.23
3668-E	36.5	68.5	17.36	14.00	6.92	173.00	0.34	Yes	+50/-50	0.23
6012TRN	60.5	12.5	5.25	3.71	0.00	0.00	0.31	No	+50/-50	0.26
Builder:R-A	Fullder:R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.									

WINDOW SCHEDULE - PROPOSED CAPE

AT LEAST ONE EGRESS WINDOW IS REQUIRED FOR EACH SLEEPING AREA WHERE NO EXTERIOR EXIT DOOR EXISTS

4272/64

Crouse, NC 28033

S SUFFIX DENOTES SAFETY GLAZING / E SUFFIX DENOTES EGRESS										
Width R/O	Height R/O	R/O SF	Light	Vent	Room SF	U Value	Egress	Design Load	SHGC w/o Grids	
30.5	40.5	8.58	6.28	3.02	75.50	0.34	No	+50/-50	0.23	
30.5	55.5	11.06	8.06	3.02	75.50	0.34	No	+50/-50	0.35	
36.25	62	15.61	11.64	5.96	145.50	0.33	Yes	+45.11/-55.14	0.23	
36.5	58.5	14.83	11.76	5.76	144.00	0.34	Yes	+50/-50	0.23	
Addres			•	Callout:	Revisions	Scale:	Date 01/20/2	025 Cust:Strickla	nd	
	Width R/O 30.5 30.5 36.25 36.5	Width Height R/O R/O 30.5 40.5 30.5 55.5 36.25 62 36.5 58.5 Address: 235 Antl	Width R/O Height R/O R/O SF 30.5 40.5 8.58 30.5 55.5 11.06 36.25 62 15.61 36.5 58.5 14.83	Width R/O Height R/O R/O SF Light 30.5 40.5 8.58 6.28 30.5 55.5 11.06 8.06 36.25 62 15.61 11.64 36.5 58.5 14.83 11.76 Address: 235 Anthony Grove Rd.	Width R/O Height R/O R/O SF Light Light Vent 30.5 40.5 8.58 6.28 3.02 30.5 55.5 11.06 8.06 3.02 36.25 62 15.61 11.64 5.96 36.5 58.5 14.83 11.76 5.76 Address: 235 Anthony Grove Rd. Callout:	Width R/O Height R/O R/O SF Light Light Vent SF Room SF 30.5 40.5 8.58 6.28 3.02 75.50 30.5 55.5 11.06 8.06 3.02 75.50 36.25 62 15.61 11.64 5.96 145.50 36.5 58.5 14.83 11.76 5.76 144.00 Address: 235 Anthony Grove Rd. Callout: Revisions	Width R/O Height R/O R/O SF Light Light Light Vent SF Room Value 30.5 40.5 8.58 6.28 3.02 75.50 0.34 30.5 55.5 11.06 8.06 3.02 75.50 0.34 36.25 62 15.61 11.64 5.96 145.50 0.33 36.5 58.5 14.83 11.76 5.76 144.00 0.34 Address: 235 Anthony Grove Rd. Callout: Revisions Scale:	Width R/O Height R/O R/O SF Light Light Light Vent SF Room SF Uvalue Value Egress 30.5 40.5 8.58 6.28 3.02 75.50 0.34 No 30.5 55.5 11.06 8.06 3.02 75.50 0.34 No 36.25 62 15.61 11.64 5.96 145.50 0.33 Yes 36.5 58.5 14.83 11.76 5.76 144.00 0.34 Yes Address: 235 Anthony Grove Rd. Callout: Revisions Scale: 208tg	Width R/O Height R/O R/O SF Light Light Light Load Vent SF Room Value Value Value Egress Design Load Load Load Load Load Load Load Load	

APPROVED BY

Luke Lehman

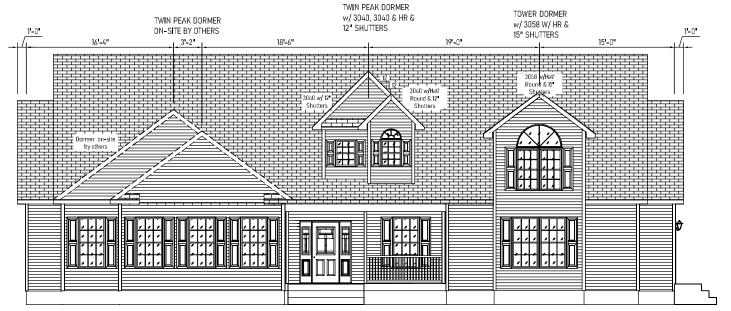
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

N:\R-ANELL\3R\24-3R2202-R33\

/24/2025

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.



FRONT ELEV

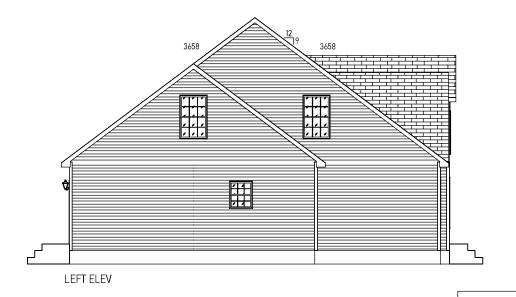


-NOTES-

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

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





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.



Builder:R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. ^{tle:} Elevations

235 Anthony Grove Rd. Crouse, NC 28033

Callout: 4272/64

Scale N.T.S. Date: 01/20/2025

Cust:Strickland Dir: HBV S/N: 44698

3R2202-R33

SYSTEMS MANUAL REFERENCES

INTERIOR WALLS: B-30-10 & 11

BEAMS: C-10-10 THRU C-10-30

FLOOR CONSTRUCTION: A-10-10 & 20

CENTER WALL UPLIFT DETAIL: B-20-10

COLUMN REQUIREMENTS: B-20-20, 21 & 30

SIDEWALL CONSTRUCTION: B-10-10

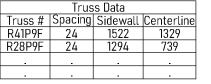
- 1 JACK POST, PIER OR CONCRETE FILLED POST THAT MEETS OR EXCEEDS REQUIRED SUPPORT CAPACITY PER FOUNDATION DESIGN.
- 2 EXTERIOR WALL INSULATION (SEE INSULATION R-VALUES).
- 2X6 #3 SPF EXTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
- 2X6 #3 SPF SIDEWALL BOTTOM PLATE.
- 7/16" RATED SHEATHING.
- VINYL OR HARDBOARD SIDING (RAN VERT. OR HORZ.) INSTALLED PER MFGR.'S INSTRUCTIONS
- AIR INFILTRATION AND WATER RESISTANT BARRIER.
- 2X4 #3 SPF SINGLE OR DOUBLE TOP PLATE.
- 2X6 TREATED SILL PLATE. FASTENING OF SILL AND HOME TO FOUNDATION ON SITE PER CODES OR BY LOCAL ENGINEER WHEN APPLICABLE.
- 2X4 #3 SPF INTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
- 2X4 #3 SPF BOTTOM PLATE INTERIOR WALLS, TYP.
- 12 ENGINEERED TRUSSES SPACED TO MEET DESIGNED GROUND LOAD SNOW LOAD.
- VAPOR BARRIER.
- CEILING BOARD 1/2" GYPSUM.
- 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.
- RIDGE VENT TYP. 50% VENTILATION OF ROOF CAVITY (UPPER PORTION), INSTALLED PER CODE REQUIREMENTS.
- TYPICAL SHINGLES, INSTALLED PER MFGR'S INSTRUCTIONS.
- SHINGLE UNDERLAYMENT TYP.
- JOIST HANGERS AT MATELINE(S).
- 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 23/32" (0.S.B.) BOARD DECKING.
- 25 ALUM., VINYL OR HARDIE BOARD FACIA AND DRIP EDGE.
- 26 FLOOR CAVITY OR PERIMETER WALL MUST BE INSULATED ON SITE OR AT THE FACTORY (SEE "INSULATION R-VALUES")
- PERIMETER RIM JOIST MUST BE INSULATED TO R-VALUE LISTED FOR EXTERIOR WALLS
- 28 INSULATION INSTALLED ONSITE BY OTHERS PER THERMAL REQUIREMENTS AND/OR STATE AND LOCAL CODES
- 29 VENTED SOFFIT 50% OF LOWER ROOF VENTILATION
- BAFFLE REQUIRED
- 31 DRIFT BLOCKER
- VAPOR RETARDER (AS REQUIRED PER CLIMATE ZONE).
- 33 FLOOR DECKING RATED FOR 19.2" O.C. JOIST SPACING MAX.
- 34 MIN. 2X10 #2 SPF FLOOR JOIST 16" O.C.
- 35 2X6 #3 SPF DOUBLE TOP PLATE.
- 36 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 2771/300 = 9.24 VENT REQUIRED

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



STUD O.C. SPACING

EXTERIOR WALL: 16"

INTERIOR WALL: 24"

INSULATION R-VALUES CEILING: 38

CEILING (Between Knee Walls: 30 EXTERIOR WALLS (continuous): .

EXTERIOR WALLS (cavity): 19

FL00R: 30

FOUNDATION WALLS (continuous): 0 FOUNDATION WALLS (cavity): 0

WHEN HABITABLE CRITERIA IS MET PER APPLICABLE CODES, THE ATTIC SPACE MAY BE FINISHED ON SITE BY OTHERS AT BUILDERS.

DISCRETION, IT IS THE RESPONSIBILITY OF THE SITE BUILDER TO PROVIDE ALL STRUCTURAL, ELECTRICAL, THERMAL, VAPOR BARRIER, VENTILATION, HEATING AND COOLING MATERIALS AND INSTALLATION TO COMPLY WITH ALL STATE AND LOCAL CORE REQUIREMENTS, CONSULT YOUR LOCAL AUTHORITY HAVING JURISDICTION, THESE MEASURES ARE NOT ADDRESSED AT THE

WHEN FINISHING HABITABLE SPACE, INSULATED &, BOX-OUT AS NECESSARY TO ACCOMMODATE REQUIRED INSULATION THICKNESS

R41P9F

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.

24/2025 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. Luke Lehman

^{Builder}R–Anell Housing Group, LLC – Subsidiary of The Commodore Corp. ^{tle:} Cross Section

235 Anthony Grove Rd. Crouse, NC 28033

Callout: 4272/64

3/16" = 1'-0"

01/20/2025

Cust Strickland Dir: HBV S/N: 44698

3R2202-R33

N:\R-ANELL\3R\24-3R2202-R33

SYSTEMS MANUAL REFERENCES

INTERIOR WALLS: B-30-10 & 11

BEAMS: C-10-10 THRU C-10-30

FLOOR CONSTRUCTION: A-10-10 & 20

CENTER WALL UPLIFT DETAIL: B-20-10

21

COLUMN REQUIREMENTS: B-20-20, 21 & 30

SIDEWALL CONSTRUCTION: B-10-10

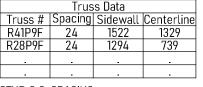
- 1 JACK POST, PIER OR CONCRETE FILLED POST THAT MEETS OR EXCEEDS REQUIRED SUPPORT CAPACITY PER FOUNDATION DESIGN.
- 2 EXTERIOR WALL INSULATION (SEE INSULATION R-VALUES).
- 2X6 #3 SPF EXTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
- 2X6 #3 SPF SIDEWALL BOTTOM PLATE.
- 7/16" RATED SHEATHING.
- VINYL OR HARDBOARD SIDING (RAN VERT. OR HORZ.) INSTALLED PER MFGR.'S INSTRUCTIONS
- AIR INFILTRATION AND WATER RESISTANT BARRIER.
- 2X4 #3 SPF SINGLE OR DOUBLE TOP PLATE.
- 2X6 TREATED SILL PLATE. FASTENING OF SILL AND HOME TO FOUNDATION ON SITE PER CODES OR BY LOCAL ENGINEER WHEN APPLICABLE.
- 2X4 #3 SPF INTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
- 2X4 #3 SPF BOTTOM PLATE INTERIOR WALLS, TYP
- 12 ENGINEERED TRUSSES SPACED TO MEET DESIGNED GROUND LOAD SNOW LOAD.
- VAPOR BARRIER.
- CEILING BOARD 1/2" GYPSUM.
- 7/16" 24/16 RATED ROOF DECKING MIN. TYP.
- 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.
- RIDGE VENT TYP. 50% VENTILATION OF ROOF CAVITY (UPPER PORTION), INSTALLED PER CODE REQUIREMENTS
- TYPICAL SHINGLES, INSTALLED PER MFGR'S INSTRUCTIONS.
- SHINGLE UNDERLAYMENT TYP.
- JOIST HANGERS AT MATELINE(S).
- 1" MIN. SPACE FOR ATTIC VENTILATION.
- 22 TYPICAL ICE BARRIER PER SECTION 905 OF APPLICABLE CODE.
- CEILING INSULATION TYP. (SEE INSULATION R-VALUES)
- 24 23/32" (0.S.B.) BOARD DECKING.
- 25 ALUM., VINYL OR HARDIE BOARD FACIA AND DRIP EDGE.
- 26 FLOOR CAVITY OR PERIMETER WALL MUST BE INSULATED ON SITE OR AT THE FACTORY (SEE "INSULATION R-VALUES")
- PERIMETER RIM JOIST MUST BE INSULATED TO R-VALUE LISTED FOR EXTERIOR WALLS
- 28 INSULATION INSTALLED ONSITE BY OTHERS PER THERMAL REQUIREMENTS AND/OR STATE AND LOCAL CODES
- 29 VENTED SOFFIT 50% OF LOWER ROOF VENTILATION
- BAFFLE REQUIRED
- 31 DRIFT BLOCKER
- VAPOR RETARDER (AS REQUIRED PER CLIMATE ZONE).
- 33 FLOOR DECKING RATED FOR 19.2" O.C. JOIST SPACING MAX.
- 34 MIN. 2X10 #2 SPF FLOOR JOIST 16" O.C.
- 35 2X6 #3 SPF DOUBLE TOP PLATE.
- 36 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 2771/300 = 9.24 VENT REQUIRED

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



STUD O.C. SPACING

EXTERIOR WALL: 16"

INTERIOR WALL: 24"

INSULATION R-VALUES CEILING: 38

CEILING (Between Knee Walls: 30 EXTERIOR WALLS (continuous): .

EXTERIOR WALLS (cavity): 19

FL00R: 30

FOUNDATION WALLS (continuous): 0 FOUNDATION WALLS (cavity): 0

BOX-OUT AS NECESSARY TO ACCOMMODATE REQUIRED INSULATION THICKNESS WHEN HABITABLE CRITERIA IS MET PER APPLICABLE CODES, THE ATTIC SPACE MAY BE FINISHED ON SITE BY OTHERS AT BUILDER'S 30-

STRUCTURAL ELECTRICAL THERMAL VAPOR BARRIER VENTILATION HEATING AND COOLING MATERIALS AND INSTALLATION TO COMPLY WITH ALL STATE AND LOCAL CODE REQUIREMENTS, CONSULT YOUR LOCAL AUTHORITY HAVING JURISDICTION, THESE MEASURES ARE NOT ADDRESSED AT THE FACTORY

R28P9F

WHEN FINISHING HABITABLE SPACE, INSULATED &,

>>>>>>> 24

20-

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.

/24/2025 approve any deviation or deviations from the requirements of applicable State Laws. Luke Lehman

APPROVED BY

^{Builder}R–Anell Housing Group, LLC – Subsidiary of The Commodore Corp.

le: Cross Section 2

Callout: 4272/64 235 Anthony Grove Rd. Crouse, NC 28033

01/20/2025 1/4" = 1'-0"

Cust Strickland Dir: HBV S/N: 44698

3R2202-R33

N \R-ANELL\3R\24-3R2202-R33

SHOWER

(69'-8" x 83)

SHOWER

(69'-6" x 7)

(58"-10" × 109)

LAV

2'-107/8"

3/4x8'-8 3/4"

3/4x2"-9 3/4"

1/2"

X OVER (46'-4" x 163 7/8)

X OVER

(42'-4" x 1/8)

6'-6 1/2"

(58°-10" x 44)

3/4x3/4"

2'-37/8"

(42'-4" x 80)

- 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 × B) INDICATE: (DIST. FROM REAR END OF HOME FLOOR × 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 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.
- 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.

LINE SIZED FOR DISHWASHER

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

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

MARRIAGE EDGE 3/4x29'-0 3/4" 3/4 (17'-2" x 70) FULL OPEN VALVE 3/4 3/4x8·7/8 **LAV** (11'-8" x 19) LAV (11°-8° x 85) (5"-3" x 10 1/4) 5'-8 3/4"

/24/2025 approve any deviation or deviations from the requirements of applicable State Laws. ALL DIMENSIONS FROM REAR Luke Lehman

AND MARRIAGE EDGE

WASHER

(66'-1 1/4" x 155)

5'-1"

82 FROM

MARRIAGE EDGE

3/4x6'-6 3/8"

6'-10 3/8"

3 1/4°

5'-8 7/8"

UTIL SINK

(60'-7" × 152)

8'-8 7/8"

X OVER

(50'-0" x 1/8)

SINK

3/4x7 3/4" -

(47'-1" x 73) | 5 7/8"

3/4x1/2ª

CAPE PREP

(51'-9" x 128)

3/4

3/4x1'-7 7/8"

80 FROM

3/4x3"-8 7/8"

3/4x6'-8 3/8"

235 Anthony Grove Rd. Crouse, NC 28033 Callout: 4272/64 ^{Builder:}R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. Scale: CUSTOM Cust:Strickland Date: 01/20/2025 Dlr: HBV ^{itle:} Hot Water Lines S/N: 44698

3R2202-R33

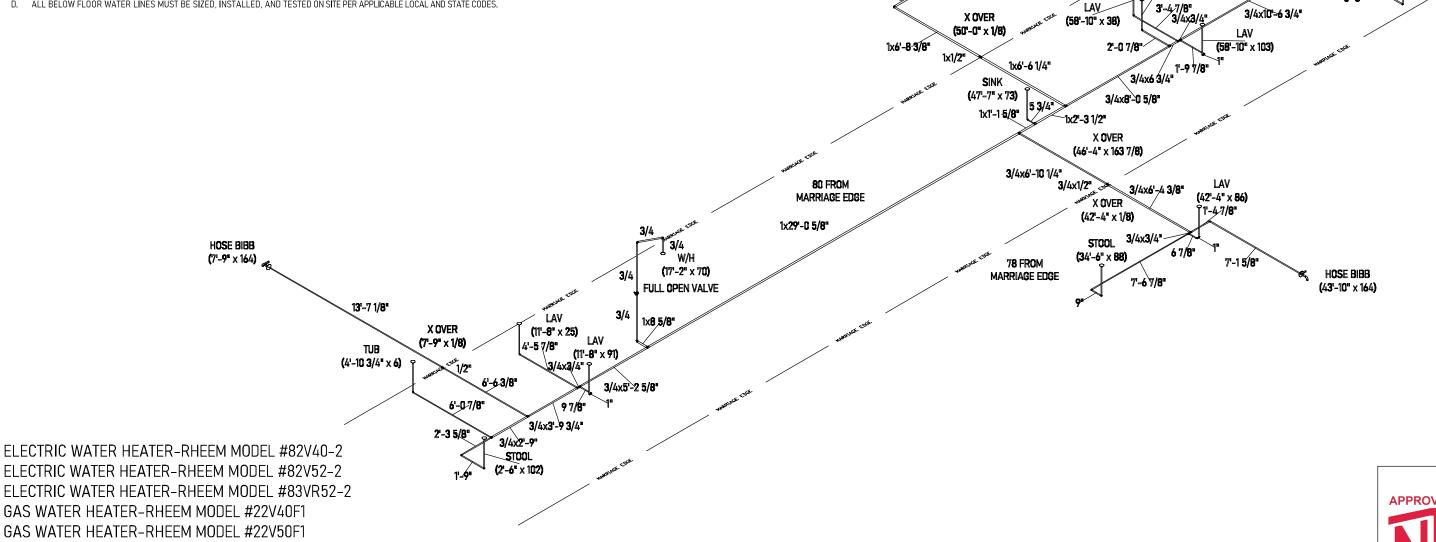
APPROVED BY

N:\R-ANELL\3R\24-3R2202-R33\

- 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 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.
- 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



CAPE PREP

(51'-6 1/2" x 128)

1x1"-5 1/8"

HANGER SPACING - PEX PIPE (SUPPLY) MAX HORIZONTAL MAX VERTICAL SPACING (FT.) SPACING (FT.)

2'-8"

^{tle:} Cold Water Lines

Builder:R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.

4'-0"

235 Anthony Grove Rd. Crouse, NC 28033

Callout: 4272/64

MAIN SHUTOFF IN

(66'-1 1/4" x 146 1/2)

_1x2 7/8"

1x4"-8 5/8"

MAIN SHUTOFF OUT

(66'-11/4" x 141)

SHOWER

(70'-0" x 7)

5'-11 7/8°

OPT. ICEMAKER

(58°-2" x 54)

3/4x2 3/4"

SHOWER (69°-8" x 83)

STOOL

(70'-2" x 156)

WASHER SHUTOFF VALVE

3 1/4"

82 FROM

MARRIAGE EDGE

(66'-1 1/4" x 149)

UTIL SINK

(61'-1" x 152)

5'-8 3/4

1x9"-51/8"

INLET (66'-11/4" x 146 1/2)

3/4x3'-8 3/4"

Scale: CUSTOM Date: 01/20/2025

Cust:Strickland Dir: HBV S/N: 44698

ALL DIMENSIONS FROM REAR

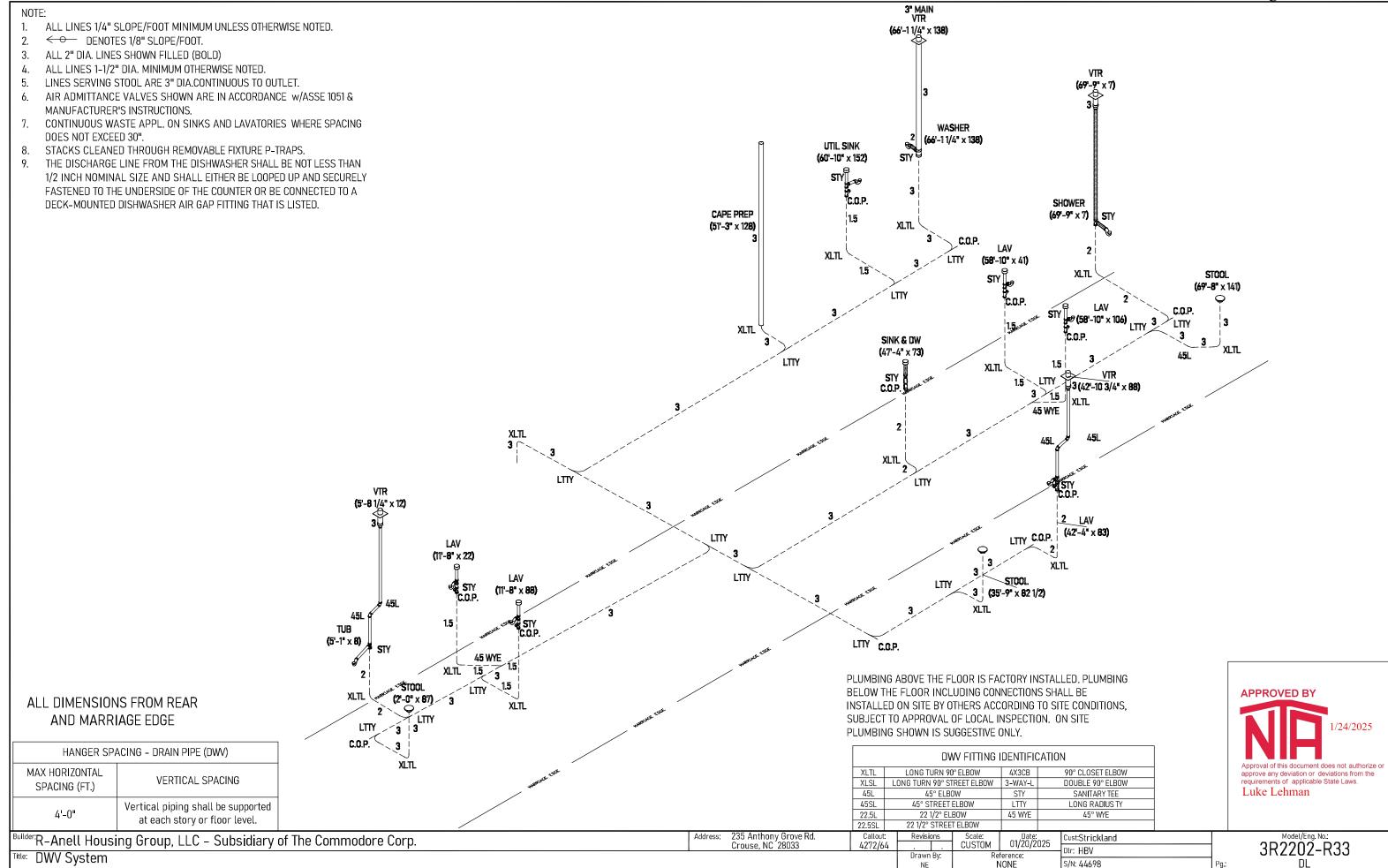
AND MARRIAGE EDGE

3R2202-R33

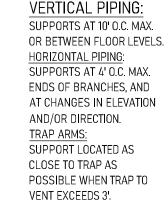
Approval of this document does not authorize or approve any deviation or deviations from the equirements of applicable State Laws.

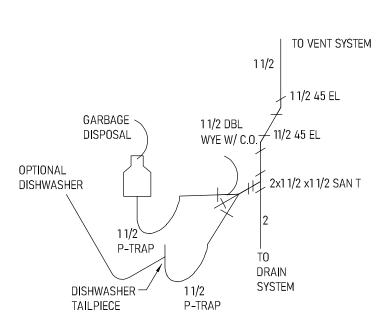
N:\R-ANELL\3R\24-3R2202-R33\

Luke Lehman



N:\R-ANELL\3R\24-3R2202-R33\





WTR HTR FULL OPEN - SHUT-OFFS DIELECTRIC UNIONS OR FLEXIBLE COPPER CONNECTOR T&P RELIEF VALVE TO CONFORM TO ANSI Z21.22 (2015) * = WHERE LOCAL CODE ALLOWS. -RELIEF VALVE RELIEF VALVE DISCHARGE PIPE MAY DISCHARGE PIPE* EMPTY INTO DRAIN PAN. CLAMP OR SUPPORT WITHIN ** = AIR GAP NO LESS THAN TWICE THE 12" OF DISCHARGE (ON-SITE DIAMETER OF THE DISCHARGE PIPE, BUT NOT BY OTHERS) MORE THAN 6". FOR EXAMPLE, FOR A DISCHARGE PIPE OF 3/4" INSIDE DIAMETER THE AIR GAP MUST BE NO LESS THAN 11/2". -AIR GAP – DRAIN PAN 1-1/2" MIN ~WOOD FLOOR SYSTEM OPTIONAL GARBAGE DISPOSAL PLUMBING ILLINOIS MODELS ONLY - USE DETAIL ABOVE FOR OPTIONAL GARBAGE DISPOSAL

ALL BELOW FLOOR PLUMBING BY OTHERS. ALL FITTINGS BELOW BOTTOM CAN BE SHIPPED LOOSE.

WATER HEATERS, WHICH HAVE A "BACK-FLOW PREVENTER"

OR A "CHECK VALVE" LOCATED IN THE COLD WATER INLET

LINE, ARE TO BE EQUIPPED WITH AN EXPANSION TANK

INSTALLED BETWEEN THE BACK-FLOW PREVENTER (OR

CHECK VALVE) AND THE WATER HEATER IN ORDER TO

ALIEVIATE THERMAL EXPANSION.

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 11/2" 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

WATER INLET

IN CONCEALED SPACES WHERE PIPING IS INSTALLED THRU HOLES OR NOTCHES IN STUDS, JOISTS, TRUSSES, OR SIMILAR MEMBERS LESS THAN 11/2" 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.

- PAN DRAIN RUN TO OUTDOOR

OR TO INDIRECT WASTE

RECEPTOR

PROVIDE FUEL GAS SHUT-OFF VALVE (WHERE APPLICABLE) AND ELECTRICAL

SHUT-OFF MEANS FOR WATER HEATER.

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 DO. 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.

ANTI-SIPHON

DEVICE

TYP WATER

HEATER

COLD

MAIN FULL OPEN

SHUT-OFF VALVE



Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 4272/64	Revisions	Scale: N.T.S.	Date: 01/20/2025	Cust:Strickland	T
Title: DIAN/ NICHO			Drawn By:	Re	eference:	DIII. NDV	
Title: DWV Notes			NE NE	l ,	NONE	S/N: 44698	Pg.:

-RUN TO INDIRECT WASTE RECEPTOR

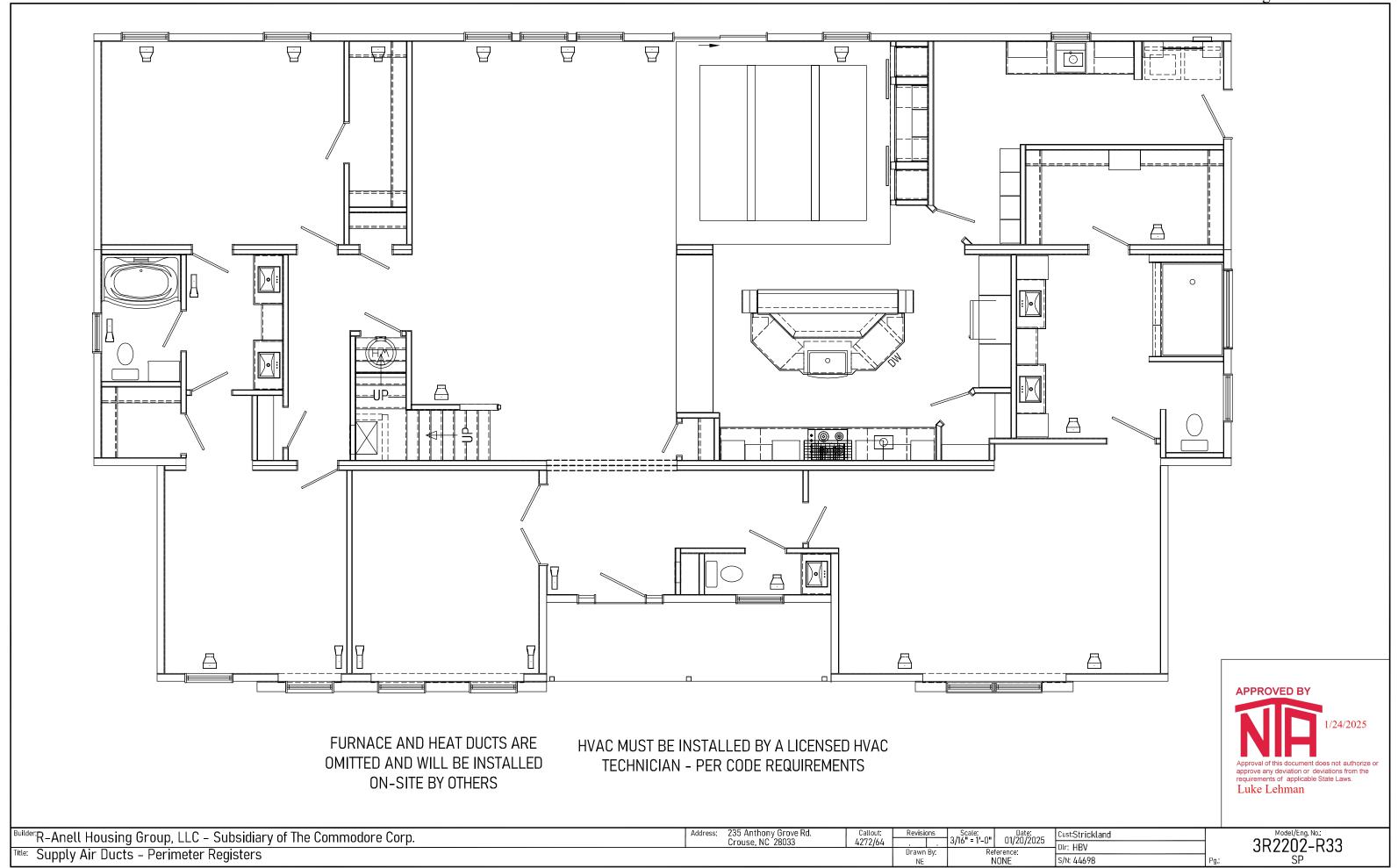
(NOT REQUIRED WHEN RELIEF VALVE

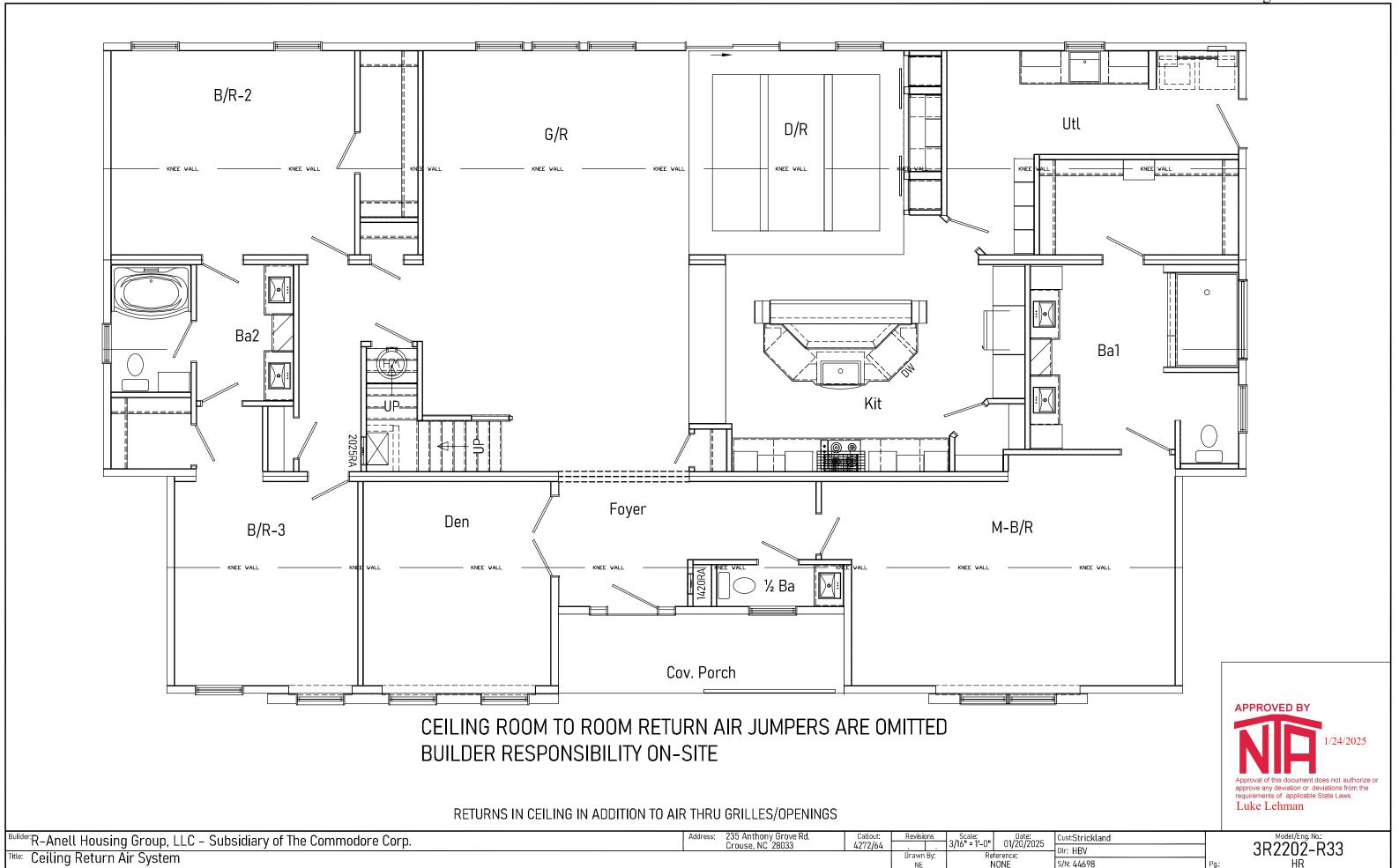
ON-SITE BY OTHERS PER

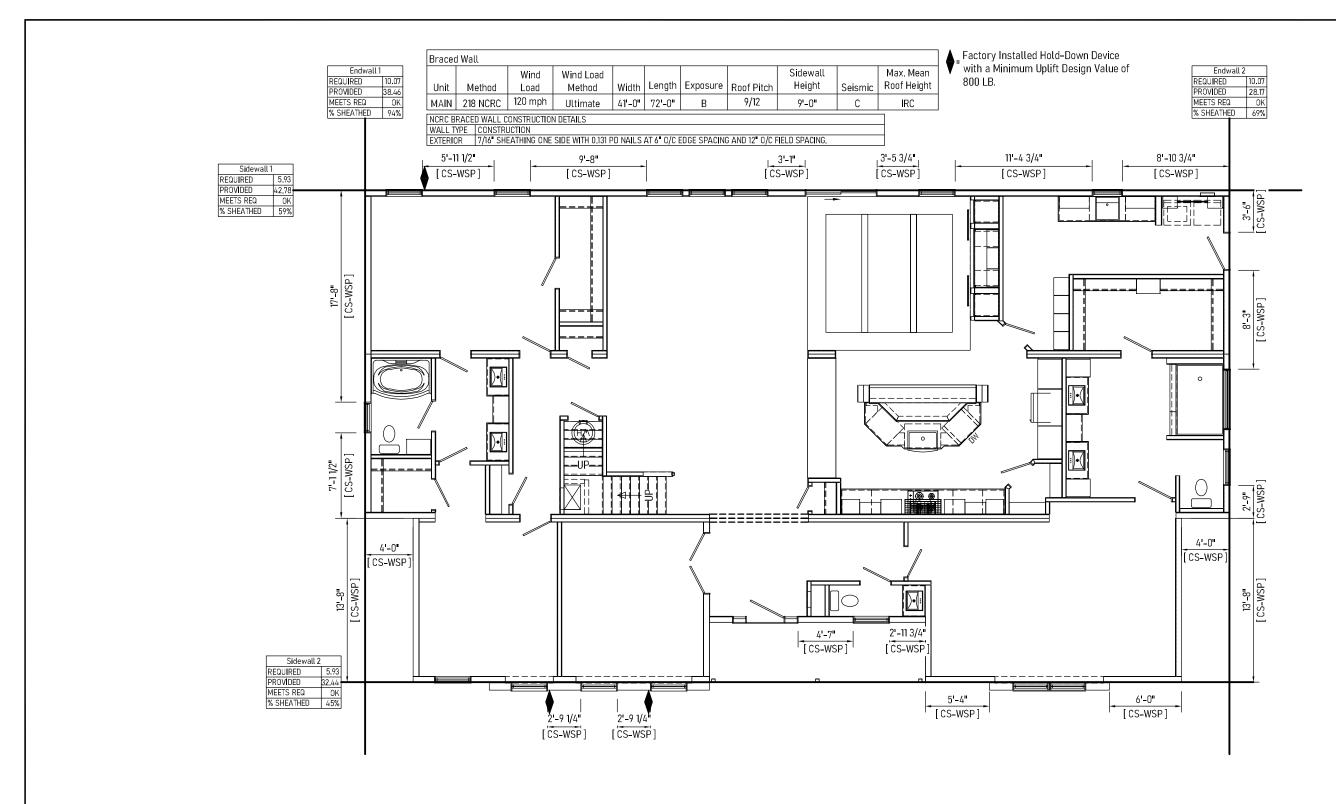
APPLICABLE CODE.

OR TO THE OUTDOORS

DISCHARGES TO PAN.







Bracing per prescriptive North Carolina 2018 Residential code.

In conjuction 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



Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 4272/64	Revisions	Scale: Date: 1/8" = 1'-0" 01/20/2025	Cust:Strickland Dtr: HBV	
Title: Braced Walls-Prescriptive			Drawn By: NE	Reference: NONE	S/N: 44698	- Pg.:

Footing size	Footing max. load (lbs.) for 8" x16" pier							
(in <u>.</u>)	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 conditio

if noted kip load exceeds capacities listed above

COLUMNS & FOOTINGS **MUST BE RATED TO MEET THE CENTER** LINE LOADS LISTED GROUND SNOW LOAD 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 T 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.

UNIT C

UNIT B

UNIT A

APPROVED BY

Luke Lehman

-8.9 K

4'-0"

 \blacksquare

6'-0"

5'-4"

42-4

33'-8"

64'-0"

18'-0"

PORCH

25'-0"

10'-0"

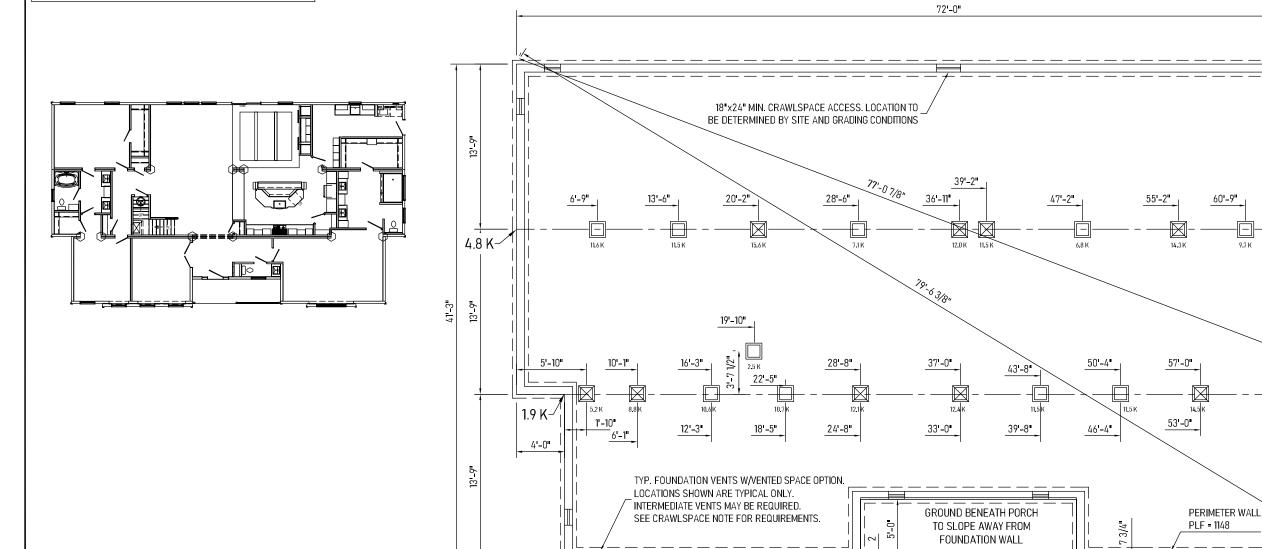
BUMP-OUT

21'-4"

Cust:Strickland

ır: HBV

S/N: 44698



2X10 OR TRUSS ELOOR 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 DISCRETIONOF 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 (EC): 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:R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp. 235 Anthony Grove Rd. Callout: 4272/64 01/20/2025 1/8" = 1'-0" Crouse, NC 28033 Title: Foundation 2x10 Marriage Line without Stair

24'-8"

3R2202-R33

Approval of this document does not authorize of

pprove any deviation or deviations from the

requirements of applicable State Laws.

N:\R-ANELL\3R\24-3R2202-R33\

24/2025

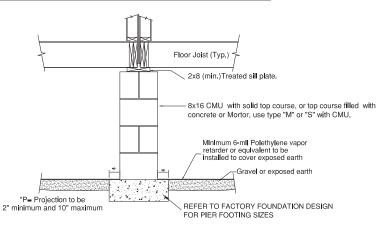
N.C. Foundation Cross Section- 90 to 130 Mph 1-1/2, 2, OR 2-1/2 STORY 1/2" diameter anchor bolt embedded into wall top courses with a minimum of 7" deep anchor with washers, in 115-129 mph zones. OPTIONAL A minimum of 15" deep anchor with washers, (2"x 2" x 1/8" washers in 130 mph) Minimum 6" strip of 7/16" OSB continuous band Anchor bolts within 12" from corners and ends of sill plates. Anchor bolt spacing: fastened to both sill plate and rim joist with 8d nails 72" O.C. - 90-129 MPH or 15ga x 7/16x 1 1/2 staples 5" O.C. 48" O.C. - 130 Mph Rim Joist to Sill plate fastened Floor Joist (Typ.), 8d nails- 5" O.C. Max. 2x6 (min.)Treated sill plate. Sill plate bolt may be countersunk with double sill plate only. Refer to table 404.1.1(1) in the North Carolina Residential Code forbackfill requirements Poured wall (typ) or 8x16 CMU wall with top course filled with concrete or Mortor, use type "M" or "S" with CMU. Foundation dampproofing required where the outside grade is higher than the inside grade. Minimum 6-mil Polethylene vapor retarder or equivalent to be nstalled to cover exposed earth -Gravel or exposed earth *P= Projection to be ∞ 2" minimum and 8" maximum Continuous rebar in footings when required per soil conditions and local code.

BOTTOM OF FOOTINGS TO BE A MIN. OF 12" BELOW GRADE

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

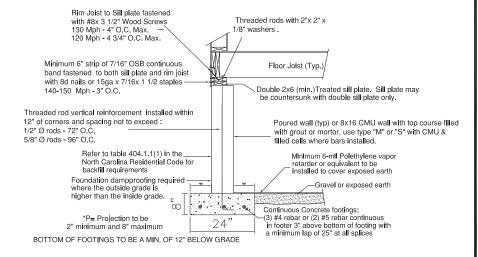


BOTTOM OF FOOTINGS TO BE A MIN. OF 12" BELOW GRADE

R404.1.5.4Piers.

The unsupported height of masonry piers shal Inot 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 806.9.

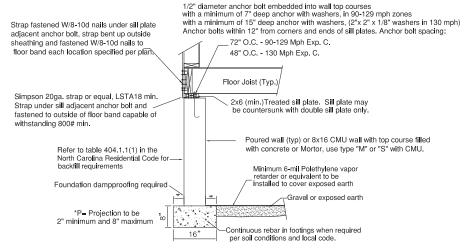
N.C. High Wind Foundation Cross Section- 140 to 150 Mph 1-1/2, 2, OR 2-1/2 STORY



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 the 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. 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.

S 20 20 ALI SNOW QW \exists 150 SPEED 110 S S <u>N</u> UNDATI EVISION: 징



Load Short Form Entire House AMS of Indiana, Inc.

Page 17 of 40 3R2202-R33

By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

For: The Commodore Corporation

3R2202-R33

Design Information							
	Htg	Clg		Infiltration			
Outside db (°F)	15	100	Method		Simplified		
Inside db (°È) É	70	75	Construction quality		Average		
Design TD (°F)	55	25	Fireplaces		0		
Daily range	-	M	·				
Inside humidity (%)	50	50					
Moisture difference (gr/lb)	46	53					

HEATING EQUIPMENT

COOLING EQUIPMENT

Make	Generic			Make	Generic		
Trade				Trade			
Model	AFUE 96			Cond	SEER 14.0		
AHRI ref				Coil			
				AHRI ref			
Efficiency		96 AFUE		Efficiency		12.2 EER, 14 SEER	
Heating inpu	ut	49904	Btuh	Sensible cod	oling	36842	Btuh
Heating outp	out	47908	Btuh	Latent coolir	ng	15789	Btuh
Temperature	e rise	29	°F	Total cooling	3	52631	Btuh
Actual air flo	W	1502	cfm	Actual air flo	W	1502	cfm
Air flow facto	or	0.036	cfm/Btuh	Air flow facto	or	0.047	cfm/Btuh
Static pressu	ure	0.50	in H2O	Static pressu	ıre	0.50	in H2O
Space therm	nostat			Load sensib	le heat ratio	0.77	

RO	OOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BR 3 DEN FOY BA3 BR 1 BA1 WIC UTL STAIR KIT DR G BR 2	Approval of this document does not author approve any deviation or deviations from the requirements of applicable State Laws. Luke Lehman BR	380 240 240 220 or 107 216 65 1307 343	3826 3148 1958 893 5716 2913 985 3770 0 10723 4991	3431 3139 1184 404 4375 2291 567 2216 0 8970 3486	138 114 71 32 206 105 36 136 0 387 180	161 147 56 19 205 107 27 104 0 420 163
BA2	· ·	213	¹ 2690	1982	97	93

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

					Page	18 of 40
Entire House Other equip loads Equip. @ 1.05 RS Latent cooling	d M	3486	41611 6285	32046 2903 36835 10325	1502	1502
TOTALS		3486	47896	47160	1502	1502





Component Constructions Entire House

AMS of Indiana, Inc.

AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

For: The Commodore Corporation

3R2202-R33

Design Conditions											
Location: Fayetteville, NC, US Elevation: 186 ft Latitude: 35°N Outdoor:	Heating	Cooling	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 55 50 45.6	Cooling 75 25 50 52.8						
Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	15 - - 15.0	100 19 (M) 79 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 0							

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
12E-0sw: Frm wall, vnl ext, 3/8" wood shth, r-19 cav ins, 1/2" gypsum	ne	551	0.068	19.0	3.74	2060	1.93	1065
board int fnsh, 2"x6" wood frm, 16" o.c. stud	se	436	0.068	19.0	3.74	1631	1.93	844
	SW	586	0.068	19.0	3.74	2190	1.93	1133
	nw	465	0.068	19.0	3.74	1739	1.93	900
	all	2038	0.068	19.0	3.74	7620	1.93	3942
Partitions (none)								
Windows 2 glazing, clr outr, air gas, wd frm mat, clr innr, 1/4" gap, 1/8" thk: 2 glazing,	no	131	0.320	0	17.6	2306	26.0	3412
clr outr, air gas, wd frm mat, clr innr, 1/4" gap, 1/6" thk. 2 giazing,	ne se	24	0.320	0 0	17.6	429	29.2	710
on out, an gao, wa min mat, on min, 1/4 gap, 1/6 till, 0.07 terroad fit		119	0.320	0	17.6	2093	29.2	3468
APPROVED BY	sw nw	16	0.320	0	17.6	2093	26.0	428
APPROVED BY	all	291	0.320	0	17.6	5116	27.6	8019
Doors 1/24/2025	ali	231	0.320	O	17.0	3110	21.0	0013
11D0: Door, wd sc type	ne	47	0.390	0	21.4	1014	14.6	692
	se	21	0.390	0	21.4	450	14.6	308
Approval of this document does not authorize or	SW	25	0.390	0	21.4	526	14.6	359
approve any deviation or deviations from the requirements of applicable State Laws.	all	93	0.390	0	21.4	1989	14.6	1358
Luke Lehman								
Ceilings 16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins		1863	0.032	30.0	1.76	3279	1.95	3640
16B-38ad: Attic ceiling, asphalt shingles roof mat, r-38 ceil ins		1623	0.032	38.0	1.70	2321	1.59	2576
Tob-oodd. Attio conting, aspiralit sinnights foot mat, 1-50 cell life		1023	0.020	30.0	1.40	2021	1.00	2510
Floors								



Project Summary Entire House AMS of Indiana, Inc.

AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

The Commodore Corporation 3R2202-R33 For:

Notes:



Design Information

Weather: Fayetteville, NC, US

Winter Design Conditions

Summer Design Conditions

Outside db Inside db	15 70		Outside db Inside db	100 75	°F °F
Design TD		°F	Design TD Daily range	25 M	°F
Ventilation Method	MJ8		Relative humidity Moisture difference	50 53	% gr/lb

Heating Summary

Sensible Cooling Equipment Load Sizing

Structure	34597	Btuh	Structure	24239 Btuh
Ducts (R-8.0)	7014	Btuh	Ducts (R-8.0)	7807 Btuh
Central vent (105 cfm)	6285	Btuh	Central vent (105 cfm)	2903 Btuh
Outside air `			Outside air `	
Humidification	0	Btuh	Blower	0 Btuh
Piping Equipment load	0	Btuh		
Equipment load	47896	Btuh	Use manufacturer's data	n
•			Rate/swing multiplier	1.05
Infiltration			Equipment sensible load	36835 Btuh

Infiltration

Method Construction quality		Simplified Average	Latent Cooling Equipmen	t Load S	Sizing
Fireplaces		0	Structure Ducts Central vent (105 cfm)	3792	Btuh Btuh Btuh
Area (ft²) Volume (ft³)	Heating 3486 31376	Cooling 3486 31376	Outside air `Equipment latent load	10325	Btuh
Air changes/hour Equiv. AVF (cfm)	0.28 146	0.15 78	Equipment Total Load (Sen+Lat) Req. total capacity at 0.70 SHR	47160 4.4	

Heating Equipment Summary

Generic

Cooling	Equipment	Summary
---------	-----------	---------

Generic

Trade Model AFUE 96 AHRI ref		Trade Cond SEER 14.0 Coil AHRI ref	
Efficiency Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat	96 AFUE 49904 Btuh 47908 Btuh 29 °F 1502 cfm 0.036 cfm/Btuh 0.50 in H2O	Efficiency Sensible cooling Latent cooling Total cooling Actual air flow Air flow factor Static pressure Load sensible heat ratio	12.2 EER, 14 SEER 36842 Btuh 15789 Btuh 52631 Btuh 1502 cfm 0.047 cfm/Btuh 0.50 in H2O 0.77

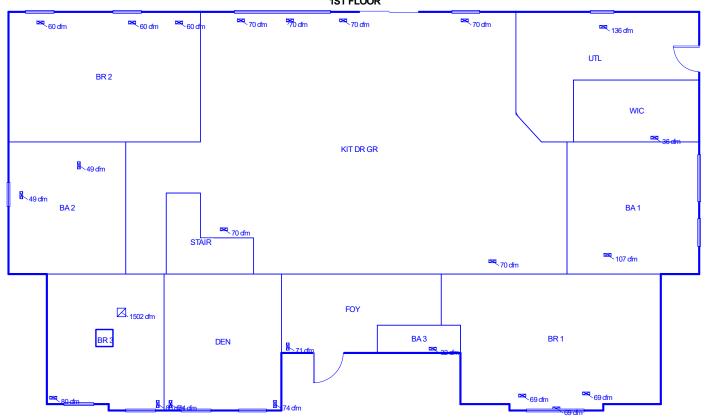
Make

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

Make









Job #: 3R2202-R33 Performed by AMS of Indiana, Inc. for:

The Commodore Corporation 3R2202-R33

AMS of Indiana, Inc.

3933 E. Jackson Blvd. Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 eng-ams@comcast.net

Scale: 1:135

Page 1 Right-Suite® Universal 2024 24.0.03 RSU02009 2025-Jan-20 15:30:17 .. AMS\DS\Commodore\3R2202-R33...



Manual S Compliance Report Entire House

AMS of Indiana, Inc.

AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

The Commodore Corporation For:

3R2202-R33

Cooling Equipment									
Design Conditions									
Outdoor design DB:	100°F	Sensible gain:	34948	Btuh	Entering coil DB:	80.9°F			
Outdoor design WB: Indoor design DB:	79.2°F 75.0°F	Latent gain: Total gain:	10325 45273	Btuh Btuh	Entering coil WB:	65.8°F			
Indoor RH:	50%	Estimated airflow:	1502	cfm					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split AC

Manufacturer: Model: SEER 14.0 Generic

Actual airflow: 1502 cfm

Sensible capacity: 36842 105% of load Btuh Latent capacity: 153% of load 15789 Btuh

Total capacity: 52631 Btuh 116% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 15.0°F Heat loss: 47896 Btuh Entering coil DB: 63.2°F Indoor design DB: 70.0°F

Manufacturer's Performance Data at Actual Design Conditions

Gas furnace Equipment type: Manufacturer: Generic

1502 Actual airflow: cfm 47908 Output capacity: **Btuh** Model: AFUE 96

100% of load **APPROVED BY**



Meets all requirements of ACCA Manual S.

0 °F

Temp. rise:



Duct System Summary Entire House

AMS of Indiana, Inc.

AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Fax: 574-294-1366 Email: eng-ams@comcast.net

Project Information

For: The Commodore Corporation

3R2202-R33

Heating Cooling 0.50 in H2O 0.50 in H2O External static pressure 0.41 in H2O 0.41 in H2O Pressure losses Available static pressure 0.09 in H2O 0.09 in H2O Supply / return available pressure 0.045 / 0.045 in H2O 0.045 / 0.045 in H2O Lowest friction rate 0 in/100ft 0 in/100ft Actual air flow 1502 cfm 1502 cfm Total effective length (TEL) 0 ft

Supply Branch Detail Table

Name		esign Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	HxW (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BA 1	С	2291	105	107	0	0	0x 0	VIFx	0	0	
BA 2	h	991	49	46	0	0	0x 0	VIFx	0	0	
BA 2-A	h	991	49	46	0	0	0x 0	VIFx	0	0	
BA 3	h	404	32	19	0	0	0x 0	VIFx	0	0	
BR1	h	1458	69	68	0	0	0x 0	VIFx	0	0	İ
BR1-A	h	1458	69	68	0	0	0x 0	VIFx	0	0	
BR1-B	h	1458	69	68	0	0	0x 0	VIFx	0	0	
BR2	h	1162	60	54	0	0	0x 0	VIFx	0	0	
BR2-A	h	1162	60	54	0	0	0x 0	VIFx	0	0	
BR 2-B	h	1162	60	54	0	0	0x 0	VIFx	0	0	
BR3	c	1716	69	80	0	0	0x 0	VIFx	0	0	
BR3-A	c	1716	69	80	0	0	0x 0	VIFx	0	0	
DEN	c	1569	57	74	0	0	0x 0	VIFx	0	0	
DEN-A	c	1569	57	74	0	0	0x 0	VIFx	0	0	
FOY	h	1184	71	56	0	0	0x 0	VIFx	0	0	
KIT DR GR-A	c	1495	65	70	0	0	0x 0	VIFx	0	0	
KIT DR GR-B	c	1495	65	70	0	0	0x 0	VIFx	0	0	
KIT DR GR-C	c	1495	65	70	0	0	0x 0	VIFx	0	0	
KIT DR GR-D	c	1495	65	70	0	0	0x 0	VIFx	0	0	
KIT DR GR-E	c	1495	65	70	0	0	0x 0	VIFx	0	0	
KIT DR GR-F	c	1495	65	70	0	0	0x 0	VIFx	0	0	
UTL-A	h	2216	136	104	0	0	0x 0	VIFx	0	0	
WIC-A	h	567	36	27	0	0	0x 0	VIFx	0	0	

APPROVED BY



Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Luke Lehman

Page 24 of 40

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x 0	1502	1502	0	0	0	0	0x 0)	ShMt	





Project 3R2202-R33

Energy Code: 2018 IECC

Location: Harnett County, North Carolina

Construction Type: Single-family
Project Type: New Construction

Project SubType: **None**

Orientation: Unspecified
Conditioned Floor Area: 2,765 ft2
Glazing Area 10%

Climate Zone: **4 (3499 HDD)**

Permit Date:

Permit Number:

All Electric false
Is Renewable false
Has Charger false
Has Battery: false
Has Heat Pump: false

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Luke Lehman

Construction Site: Tbd Lucas Street Harnett, North Carolina 28339 Owner/Agent: Strickland HBV Designer/Contractor: R-Anell Housing Group, LLC Commodore Homes, LLC 235 Anthony Grove Rd. Crouse, NC 28033

Compliance: Passes using UA trade-off

Compliance: 2.6% Better Than Code Maximum UA: 454 Your UA: 442 Maximum SHGC: 0.40 Your SHGC: 0.23

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Ceiling 1: Flat Ceiling or Scissor Truss	879	38.0	0.0	0.030	0.026	26	23
Ceiling 2 [Between knee walls]: Flat Ceiling or Scissor Truss	1,886	30.0	0.0	0.035	0.026	66	49
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Right side	456	19.0	0.0	0.060	0.060	25	25
Door - Hinged - Exterior - 9 Lite {Qty 1}: null Orientation: Right side	22			0.290	0.320	6	7
Window - Kinro SH 3668 {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Right side	17			0.340	0.320	6	5

Project Title: 3R2202-R33 Report date: 01/20/25

Data filename: Page 1 of 10

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Window - Kinro 6012 Transom {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.26 Orientation: Right side	5			0.310	0.320	2	2
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Left side	456	19.0	0.0	0.060	0.060	27	27
Window - Kinro SH 3036 {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Left side	8			0.340	0.320	3	3
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Back	704	19.0	0.0	0.060	0.060	33	33
Door - Sliding Patio {Qty 1}: null Orientation: Back	40			0.230	0.320	9	13
Window - Kinro SH 3668 {Qty 6}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Back	104			0.340	0.320	35	33
Window - Kinro SH 3036 {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Back	8			0.340	0.320	3	3
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Front	704	19.0	0.0	0.060	0.060	33	33
Door - Hinged - Exterior - Half Lite - 12DSL {Qty 1}: null Orientation: Front	38			0.280	0.320	11	12
Window - (2) Kinro SH 3668 {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Front	35			0.340	0.320	12	11
Window - Kinro SH 3668 {Qty 5}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Front	87			0.340	0.320	30	28
Wall [Cape Close Off Kit]: Wood Frame, 24" o.c. Orientation: Unspecified	200	11.0	0.0	0.087	0.060	16	11
Attic Door: Solid Orientation: Unspecified	18			0.460	0.320	8	6
Floor 1: All-Wood Joist/Truss:Over Outside Air	2,765	30.0	0.0	0.033	0.047	91	130

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2018 IECC requirements in REScheck Version: REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

1/20/2025 N. Edwards N. Edwards - drafter Name - Title Signature Date



Project Title: 3R2202-R33 Report date: 01/20/25 Data filename:

Page 2 of 10



REScheck Software Version: REScheck-Web

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			□Complies □Does Not □Not Observable □Not Applicable	
302.1, 403.7 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33 Report date: 01/20/25
Data filename: Page 3 of10

Page 28 of 40

Section # & Req.ID	Foundation Inspection	Complies?	Comments/Assumptions
303.2.1 [FO11] ²	protect exposed exterior insulation	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.9 [FO12] ²	Snow- and ice-melting system controls installed.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33

Report date: 01/20/25

Data filename: Page 4 of10

Page 29 of 40

Framing / Rough-In Inspection Plans Verified Value Complies Comments/Assumptio 402.1.1						Page 29 of 40
402.1.1 Air barrier and thermal barrier installed per manufacturer's installed per manufacturer's installed as meeting. AMPOMANCA 10.17.5.27.4.00 or has infiltration rates per NRC 402.4.3 is instead and labeled as meeting. AMPOMANCA 10.17.5.2.7.4.00 or has infiltration rates per NRC 402.4.5 installed as meeting. AMPOMANCA 10.17.5.2.7.4.00 or has infiltration rates per NRC 400.4.5.1 is installed per manufacturer's insta		Framing / Rough-In Inspection			Complies?	Comments/Assumptions
402.1.1 diazing U-factor (area-weighted do?.3.1, average). 402.3.1 average). 402.3.1 average). 402.3.1 average). 402.4.3 lifethors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table. 402.4.3 lifethors of fenestration accordance with the NFRC test procedure or taken from the default table. 402.4.1.1 Air barrier and thermal barrier installed per manufacturer's installed per manuf	402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U	U	□Does Not □Not Observable	
FRA1 are determined in accordance with the NFRC test procedure or taken from the default table. A02.4.1. Air barrier and thermal barrier installed per manufacturer's instructions. APPROVED BY	402.3.1, 402.3.3, 402.5 [FR2] ¹		U	U	□Complies □Does Not □Not Observable	See the Envelope Assemblies table for values.
Installed per manufacturer's instructions.	[FR4] ¹	are determined in accordance with the NFRC test procedure or			□Does Not □Not Observable	
is listed and labeled as meeting AMA //MDM/CSA 101/I.S.2/M440 or has infiltration rates per NFRC 400 that do not exceed code limits. 402.4.5 C-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa. 403.3.1 Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches in diameter and = R-6 ford diameter >= 3 inches in other portions of the building insulated >= R-6 ford diameter >= 3 inches and filter boxes are sealed with joints/seams compliant with international Mechanical Code or International Residential Code, as applicable. 403.3.5 Building cavities are not used as ducts or plenums. 403.4 HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R 3. 403.4.1 Protection of insulation on HVAC piping. 403.4.3 Protection of insulation on HVAC piping. 403.5.3 Hot water pipes are insulated to R-2 R-2 Complies 403.6.4 Protection of insulation on HVAC piping. 403.6.7 Protection of insulation on HVAC Complies 403.6.7 Complies 403.6.8 Complies 403.7 Complies 403.8 Complies 403.9 Complies 403.1 Complies 403.1 Complies 403.2 Complies 403.3 Complies 403.4 Complies 403.5 Complies 403.6 Complies 403.7 Complies 403.8 Complies 403.9 Complies 403.9 Complies 403.9 Complies 403.1 Complies 403.1 Complies 403.2 Complies 403.3 Complies 403.4 Complies 403.5 Complies 403.6 Complies 403.7 Complies 403.8 Complies 403.9 Complies 403.9 Complies 403.9 Complies 403.1 Complies 403.1 Complies 403.2 Complies 403.3 Complies 403.4 Complies 403.5 Complies 403.6 Complies 403.7 Compli	[FR23] ¹	installed per manufacturer's	APPROVED E		□Does Not □Not Observable	
Sealed at housing/interior finish and labeled to indicate ≤ 2.0 cfm Not Observable Not Applicable	[FR20] ¹	is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code	approve any deviation requirements of applic	or deviations from the cable State Laws.	□Does Not □Not Observable	
Insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for <3 inches in diameter. 403.3.2 Ducts, air handlers and filter boxes are sealed with joints/seams compliant with international Mechanical Code or international Residential Code, as applicable. 403.3.5 Building cavities are not used as ducts or plenums. 403.4 HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3. 403.4.1 Protection of insulation on HVAC piping. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3. 403.5.3 Hot water pipes are insulated to ≥R-3.		sealed at housing/interior finish and labeled to indicate ≤2.0 cfm			□Does Not □Not Observable	
Does Not Does Do	[FR12] ¹	insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2			□Does Not □Not Observable	
403.3.5 [FR15]³ Building cavities are not used as ducts or plenums. □Complies □Does Not □Not Observable □Not Applicable 403.4 [FR17]² HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3. R □ Complies □Does Not □Not Observable □Not Applicable 403.4.1 [FR24]¹ Protection of insulation on HVAC piping. □Complies □Does Not □Not Observable □Not Applicable 403.5.3 [FR18]² Hot water pipes are insulated to ≥R-3. R □ Complies □Does Not □D	[FR13] ¹	boxes are sealed with joints/seams compliant with International Mechanical Code or International Residential Code, as			□Does Not □Not Observable	
above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3. ### Does Not Doe	[FR15] ³	Building cavities are not used as			□Does Not □Not Observable	
[FR24]¹ piping. □Does Not □Not Observable □Not Applicable 403.5.3 Hot water pipes are insulated to [FR18]² ≥R-3. □Complies □Does Not □Not Observable □Not Observable	[FR17] ²	above 105 ^o F or chilled fluids below 55 oF are insulated to ≥R-	R	R	□Does Not □Not Observable	
[FR18] ² ≥R-3. □Does Not □Not Observable	[FR24] ¹				□Does Not □Not Observable	
	[FR18] ²		R	R	□Does Not	
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)		1 High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (Ti	er 3)

Project Title: 3R2202-R33 Report date: 01/20/25 Page 5 of 10

Data filename:

Page 30 of 40

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33

Report date: 01/20/25

Data filename: Page 6 of10

Page 31 of 40

					1 age 31 01 40
Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values			□Complies □Does Not	
•	provided.			□Not Observable □Not Applicable	
402.1.1, 402.2.6 [IN1] ¹	Floor insulation R-value.	R	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.8 [IN2] ¹	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			□Complies □Does Not □Not Observable □Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R Wood Mass Steel	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not	
				□Not Observable □Not Applicable	1 1 1 1

Additional Comments/Assumptions:



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33

Report date: 01/20/25

Data filename: Page 7 of10

Page 32 of 40

					1 45 5 2 51 15
Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.2.4 [FI3] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50 =	ACH 50 =	□Complies □Does Not □Not Observable □Not Applicable	
403.3.3 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	cfm/100 ft ²	cfm/100	□Complies □Does Not □Not Observable □Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	cfm/100 ft ²	cfm/100 ft ²	□Complies □Does Not □Not Observable □Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.	APPROVED B	1/24/2025	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
	1 High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (Ti	er 3)

Project Title: 3R2202-R33 Report date: 01/20/25

Data filename:

Page 33 of 40

					Page 33 of 40
Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.1.			□Complies □Does Not □Not Observable □Not Applicable	
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.1.1 [FI28] ²	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermossyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.		1/24/2025 Thent does not authorize or nor deviations from the cable State Laws.	□Complies □Does Not □Not Observable □Not Applicable	
403.5.1.2 [FI29] ²	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.2 [FI30] ²	Demand recirculation water systems have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to $<=104$ $^{\circ}$ F.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			□Complies □Does Not □Not Observable □Not Applicable	
404.1 [FI6] ¹	90% or more of permanent fixtures have high efficacy lamps.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
404.1.1 [FI23] ³	Fuel gas lighting systems have no continuous pilot light.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33 Data filename:

Report date: 01/20/25

Page 9 of 10

Page 34 of 40

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:



1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 3R2202-R33

Report date: 01/20/25

Data filename: Page 10 of10



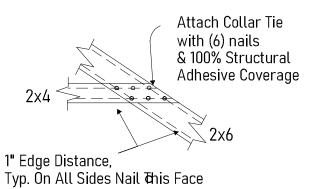
Insulation Rating	R-Value	
Above-Grade Wall	19.00	
Below-Grade Wall	0.00	
Floor	30.00	
Ceiling / Roof	30.00	
Ductwork (unconditioned spaces):		
Glass & Door Rating	U-Factor	SHGC
Window	0.34	0.23
Door	0.23	
Heating & Cooling Equipment	Efficiency	
Heating System:		
Cooling System:	_	
Water Heater:		
Name:	Date:	
Comments		



Job 32802 Truss A098601 Truss Type RIGID COLLAR TIE CONNECTION DETAILS 1 Truss Type RIGID COLLAR TIE CONNECTION TIE CONNECTION TIE CONNECTION TIE CONNECTION TIE CONNECTION TIE CONNECTI

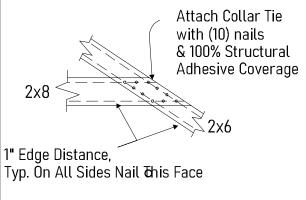
Universal Forest Products Inc., Grand Rapids, MI 49525,

2x4 Collar Tie Nailed to 2x6 Chord



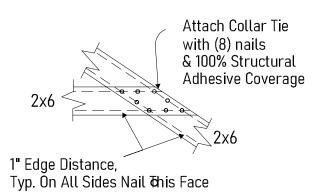
Detail (A)

2x8 Collar Tie Nailed to 2x6 Chord



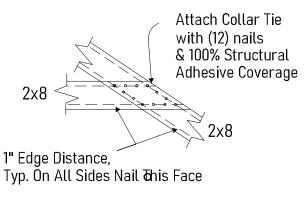
Detail (D)

2x6 Collar Tie Nailed to 2x6 Chord



Detail (B)

2x8 Collar Tie Nailed to 2x8 Chord



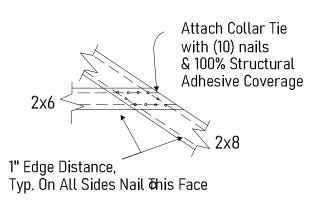
Detail (E)

Power Driven Nails Rigid Collar Tie Connection Details

A) Side member shall be fastened with structural adhesive that meets the requirements of ASTM-2559. Maximum wood to wood gap = 1/16".

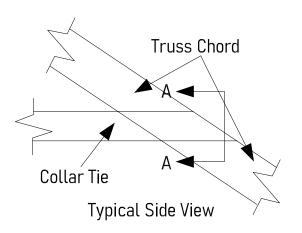
B) Bostitch .131" Dia. x 3" nails (or equal)

2x6 Collar Tie Nailed to 2x8 Chord



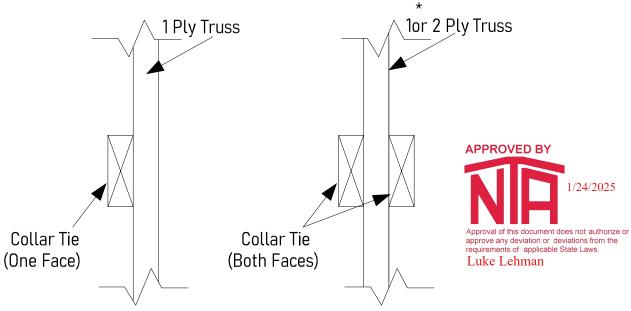
Detail (C)

This Bulletin to be used only in conjunction with UFPI truss designs which specifically refer to this Bulletin by number for collar tie field fastening.



Acceptable Alternate Applications

See truss print for which detail is actually used



Section A-A Section A-A
* FOR 1 PLY. OFFSET NAILS WITH RESPECT TO EACH FACE.

▲ WARNING – Verify design parameters and READ NOTES

Universal Forest Products, Inc.

2801 EAST BELTLINE RD, NE

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication,quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



COMMODORE (RP1PSE) 37 of 40 Job Truss Truss Type Qty 112276 CCB37744 **HINGED ATTIC** 41' tri-wide 9/12 cape Designed by ATM 274 8.620 e Sep 22 2022 MiTek Industries, Inc. Tue Jan 31 08:57:51 2023 Page 1 of UFP Industries Inc., Grand Rapids, MI 49525, Andrew Muisiner 41-1-12 20-6-14 42-1-0 0-11-4 **APPROVED BY** Copyright © 2023 UFP Industries, Inc. All Rights Reserved 12.1.13 1/24/2025 Approval of this document does not authorize or 9.00 12 11W21118 approve any deviation or deviations from the requirements of applicable State Laws 15-11-15 Luke Lehman 16-6-6 MTH18E MTH18E Opt. 1-0-12 cut off Opt. 1-0-12 cut off 25-1-12 MTH18D MTH18D Opt. 0-6+14 cut offs 0-3+14 Opt. 0-6+14 cut offs 4x5 < 0-3-14 HW1 B2 **B**1 12 // 8x12 || 13 8x12 || 41-1-12 13-8-7 5-8-7 27-5-5 13-8-14 33-1-12 5-8-7 8-0-0 Plate Offsets (X,Y)-- [1:0-7-5,0-9-0], [1:0-4-8,0-2-8], [2:0-0-11,0-0-0], [3:0-0-11,0-1-2], [9:0-0-11,0-1-2], [10:0-0-11,0-0-0], [11:0-4-8,0-2-8], [11:0-7-4,0-9-1] SPACING-: 1-4-0 SPACING -: 2-0-0 SPACING-DEFL **PLATES** GRIP 2-0-0 LOADING (psf) LOADING (psf) TC BC 0.43 -0.44 240 180 Plate Grip DOL 1.15 0.80 Vert(LL) 1-15 >373 MT20 197/144 **TCLL** TCLL MT18HS Lumber DOL 1.15 0.93 197/144 Vert(CT) 1-15 >369 (Ground Snow=30.0) (Ground Snow=45.0) Rep Stress Incr YES WB 0.69 Horz(CT) 0.02 11 n/a n/a TCDL 10.0 TCDL 15.0 Code IBC2021/TPI2014 Matrix-R Attic -0.34 13-14 484 360 Weight: 220 lb **BCLL** BCLL 0.0 0.0 FT = 0% BCDL BCDL 10.0 15.0 LUMBER-BRACING. TOP CHORD 2x10 SP No.2 or 2x10 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins. T2: 2x8 SP No.2 or 2x8 SPF No.2, T3: 2x6 SP No.2 or 2x6 SPF No.2 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. BOT CHORD 2x10 SP DSS or 2x10 SP No.1 *Except* B2: 2x10 SP DSS 2 Rows at 1/3 pts WEBS WEBS 2x4 SPF Stud *Except* W2: 2x8 SP No.2 or 2x8 SPF No.2 WEDGE Left: 2x3 SPF Stud , Right: 2x3 SPF Stud REACTIONS. (lb/size) 14=439/0-3-0 (min. 0-1-8), 13=439/0-3-0 (min. 0-1-8), 1=1445/0-5-8 (min. 0-2-5), 11=1445/0-5-8 (min. 0-2-5) Max Horz 1=735(LC 9) Max Uplift14=-325(LC 12), 13=-323(LC 13), 1=-666(LC 13), 11=-662(LC 12) Max Grav 14=1329(LC 22), 13=1327(LC 23), 1=1522(LC 23), 11=1518(LC 22) FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-1634/816, 2-3=-1564/852, 3-4=-1486/902, 4-5=-1258/934, 5-16=-505/260, 16-17=-378/270, 6-17=-348/288, 6-18=-345/286, 18-19=-374/269, 7-19=-503/259, 7-8=-1253/929, 8-9=-1486/897, 9-10=-1553/846, 10-11=-1628/810 BOT CHORD 1-20=-496/1344, 15-20=-496/1344, 14-15=-492/1341, 13-14=-492/1341, 12-13=-492/1341, 12-21=-492/1340, 11-21=-492/1340 **WEBS** 9-12=-633/744, 3-15=-637/747, 5-7=-1140/892 REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (Ib)/ Maximum Tension (Ib)/ Maximum Shear (Ib)/ Maximum Moment (Ib-in) 4 = 1349/919/266/0, 5 = 1151/900/78/0, 6 = 287/291/271/0, 7 = 1153/902/78/0, 8 = 1349/914/264/0, 12 = 633/744/0/0, 13 = 492/1341/777/0, 14 = 492/1341/779/0, 15 = 637/747/0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph @24in o.c.; TCDL=4.0psf; BCDL=4.0psf; (Alt. 180mph @16in o.c.; TCDL=6.0psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-7 to 3-2-7, Interior(1) 3-2-7 to 17-6-5, Exterior(2R) 17-6-5 to 23-6-5, Interior(1) 23-6-5 to 37-11-5, Exterior(2E) 37-11-5 to 40-11-5 zone; cantilever left and right 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); ls=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.
- 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 b the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-7
 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14, 12-13
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 14, 323 lb uplift at joint 13, 666 lb uplift at joint 1 and 662 lb uplift at joint 11.
- 14) Attic room checked for L/360 deflection.
- 15) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 16) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1 17) This truss is designed in accordance with the 2015 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 18) 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 set 19) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and ten

supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the fina

20) Based on: CCB37726. Changes: IBC 2021, 150mph wind.

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.



WARNING - Verify design parameters and READ NOTES

UFP Industries. Inc PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE GRAND RAPIDS, MI 49525

S

1/31/2023

ST



Truss shall not be cut or modified without approval of the truss design engineer.

This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible

for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building

designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding

fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available

from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe



COMMODORE

		UFP II	<u>NDUSTRIES</u>
Job	Truss	MFG	Customer

315

CCB37744

112276

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.







T2: 2x8 SP No.2 or 2x8 SPF No.2, T3: 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x10 SP No.2 or 2x10 SPF No.2

WEBS 2x4 SPF Stud *Except* W2: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. (Ib/size) 1=1061/0-5-8 (min. 0-1-15), 11=1061/0-5-8 (min. 0-1-15), 13=323/0-3-0 (min. 0-1-8)

Max Horz 1=-502(LC 8)

Max Uplift1=-501(LC 12), 11=-504(LC 13), 13=-119(LC 12) Max Grav 1=1290(LC 22), 11=1294(LC 23), 13=739(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1346/559, 2-3=-1221/559, 3-15=-971/573, 4-15=-916/587, 4-5=-320/125, 5-6=-169/145, 6-7=-167/143, 7-8=-324/125, 8-16=-907/587, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 9-16=-970/573, 9-10=-1210/554, 910-11=-1340/554

BOT CHORD

1-17=-261/1055, 14-17=-261/1055, 13-14=-259/1054, 12-13=-259/1054, 12-18=-259/1052, 11-18=-259/1052

9-12=-310/408, 3-14=-313/410, 4-8=-790/591

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in) 4=790/591/38/0, 5=266/132/133/0, 6=139/147/128/0, 7=268/131/135/0, 8=790/591/38/0, 12=310/408/0/0, 13=259/1054/504/0, 14=313/410/0/0

NOTES

1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph @24in o.c.; TCDL=4.0psf; BCDL=4.0psf; (Alt. 180mph @16in o.c.; TCDL=6.0psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-7 to 3-2-7, Interior(1) 3-2-7 to 10-7-14, Exterior(2R) 10-7-14 to 16-7-14, Interior(1) 16-7-14 to 24-2-7, Exterior(2E) 24-2-7 to 27-2-7 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WEBS

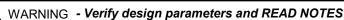
1 Row at midpt

4-8

- 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 b the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-8
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14, 12-13
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 501 lb uplift at joint 1, 504 lb uplift at joint 11 and 119 lb uplift at joint 13.
- 14) Attic room checked for L/360 deflection.
- 15) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TPI 1 16) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 17) This truss is designed in accordance with the 2015 IBC Sec 2306.1 and referenced standard ANSI/TPI 1
- 18) 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 se
- 19) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and ten supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the fina position.

20) Based on: CCB41611. Changes: IBC 2021, 150mph wind.

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.



UFP Industries. Inc PHONE (616)-364-6161

2801 EAST BELTLINE RD, NE GRAND RAPIDS, MI 49525

1/31/2023

ST



This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building

designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding

fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available

from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe





Job	Truss	MFG	Customer			
112276	CCB41614	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.







NORTH CAROLINA						
	MODULAR PLAN	S REVIEW CHECKLIST				
	<u> </u>	PAGE 1 of 3 revised June 2018				
Manu	facturer					
Mode	I number/name					
3rd Pa	arty					
	w Date					
Revie	wer					
		Plan Sheet Page # and NOTES				
	QC MANUAL (current and complete)					
	APPENDIX B (required and attached)					
	PLAN SHEETS					
	Each plan sheet third-party stamped with					
	approver's name					
	Each plan sheets is numbered and/or indexed					
	'					
	GENERAL (cover sheet)					
	Code References					
	Statement regarding connection to public utilities					
	Statement regarding bathrooms if not included					
	Construction type					
	Occupancy classification					
	Fire resistance ratings (if required)					
	Floor live load					
	Roof live load					
	Design wind velocity Seismic information (commercial projects)					
	Thermal zones					
	Notice to inspections department regarding items					
	to be site inspected					
=	to be one meposion					
	FLOOR PLANS					
	Interior and exterior wall layouts					
	Door and window schedule					
	Light and Ventilation requirements					
	Attic access (size and location)					
	Non-prescriptive headers					
	Safety glazing requirements					
	Fire rating of Exterior walls (if applicable)					
	EXTERIOR ELEVATIONO					
	EXTERIOR ELEVATIONS Exterior materials					
	Attic ventilation requirements					
	Attic veritilation requirements					
	PLUMBING					
	Plan					
	All fixtures furnished by mfg. shown on plans					
	Materials (water supply & distribution, DWV, storm					
	drainage)					
	Supply and waste risers, including DWV system					
L	(generic) beneath the building.					
	Water heater (type and capacity)					

NORTH CAROLINA					
MODULAR PLA	NS REVIEW CHECKLIST				
	PAGE 2 of 3 revised June				
	Plan Sheet Page # and NOTES				
<u>MECHANICAL</u>					
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					
All lixtures furnished by filig. 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					
Detaile de requireu fer clarimediteri					

<u>NORTI</u>	H CAROLINA				
MODULAR PLANS REVIEW CHECKLIST					
	PAGE 3 of 3	revised June 2018			
	Plan Sheet Page # and NOTES				
CEILING / ROOF X-SECTION					
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					
FOUNDATION PLAN					
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					
ENERGY COMPLIANCE					
Demonstrated compliance					
SET-UP INSTRUCTIONS					
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	1				
מף וויסנוטטווס מוב טץ מננמטוווופוונ					
ITEMS NOT INSPECTED IN PLANT					
List of items not inspected by 3rd. Party					
Notice to inspections department					