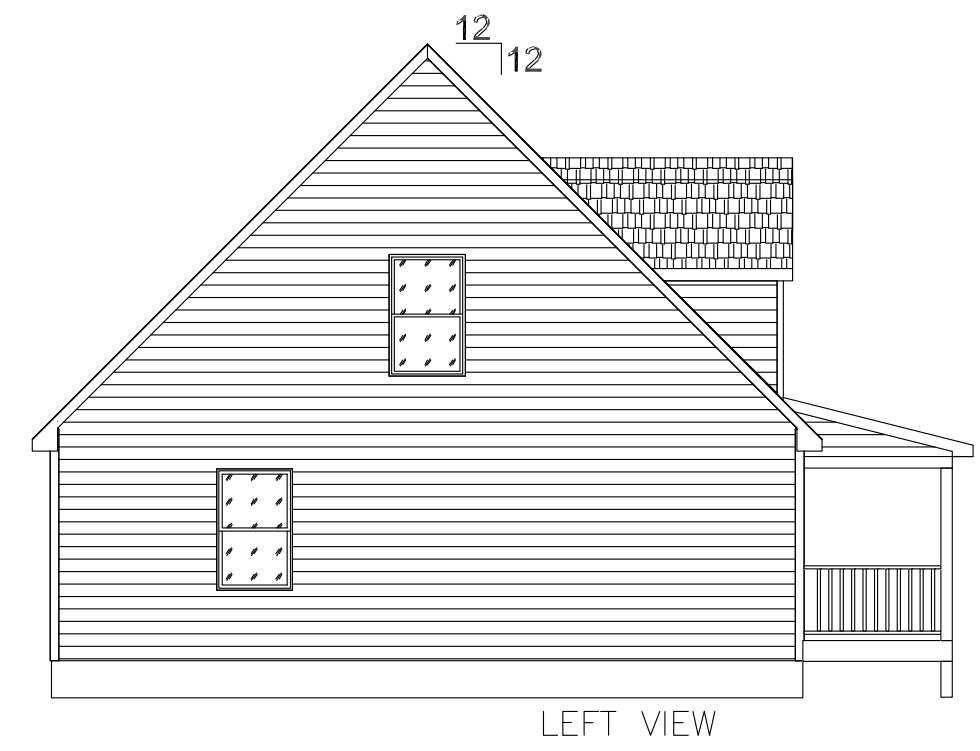
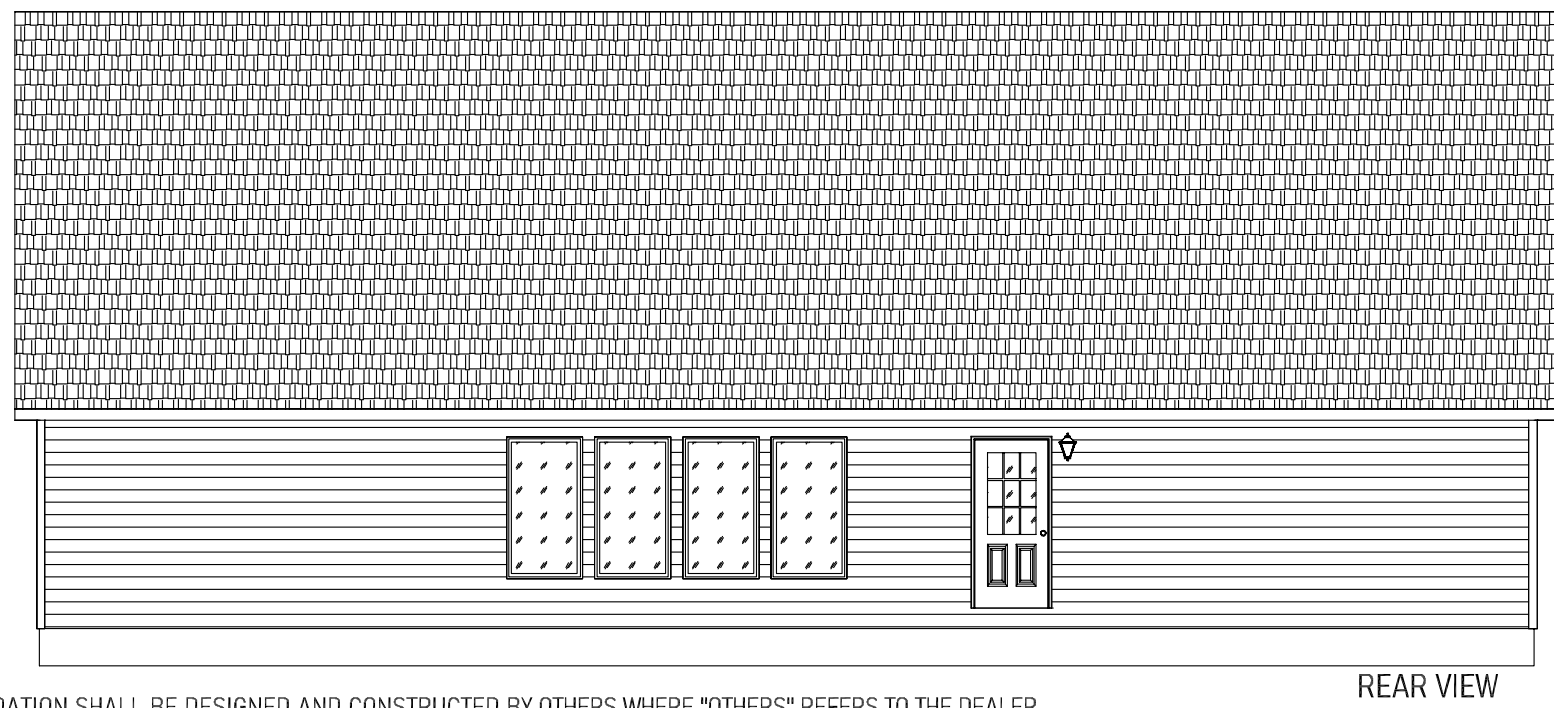
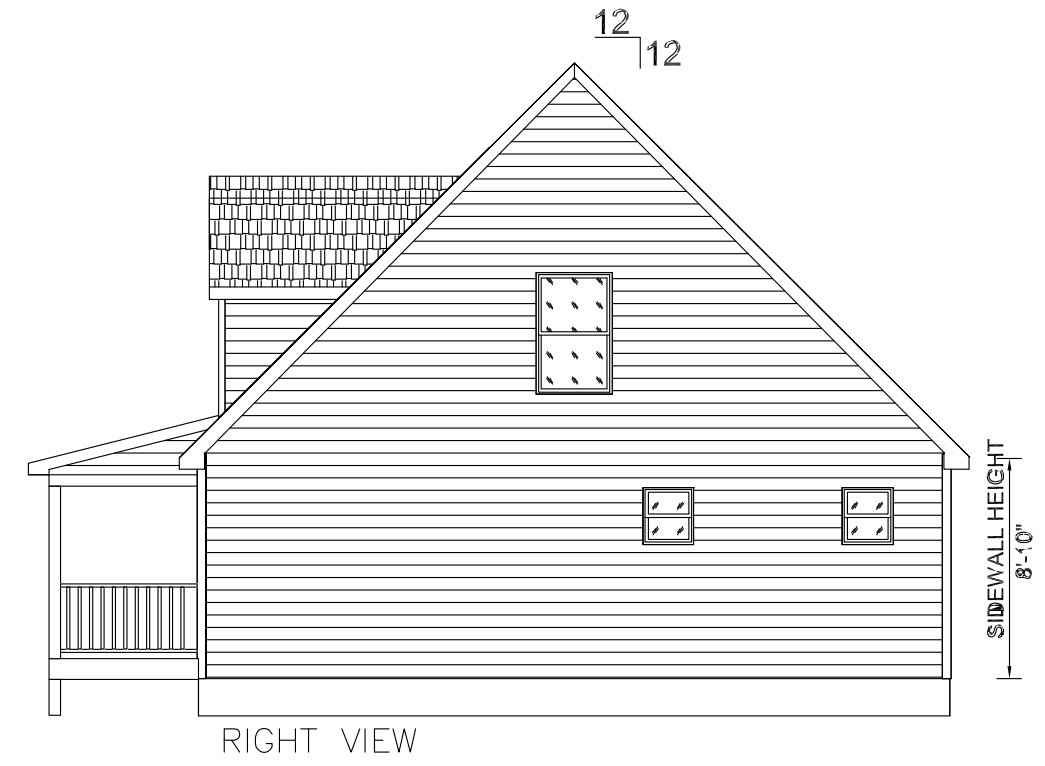


ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH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

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



- 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:
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.

Footing size (in.)	Footing max. load (lbs.) for 8" x16" pier		
	1500 PSF	2000 PSF	2500 PSF
*16x16x6	2.5K	3.4K	4.3K
*20x20x6	4.0K	5.3K	6.7K
24x24x8	5.6K	7.6K	9.6K
30x30x10	8.5K	11.7K	14.8K
36x36x12	12.4K	16.7K	20.7K
42x42x14	16.5K	22.4K	28.2K
48x48x14	21.2K	N/A	N/A

* = A 4" thick pre-cast footer of equivalent width and length may be used in place of a 6" thick cast in place footer.

Footer size must be designed by others to site conditions if noted kip load exceeds capacities listed above

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

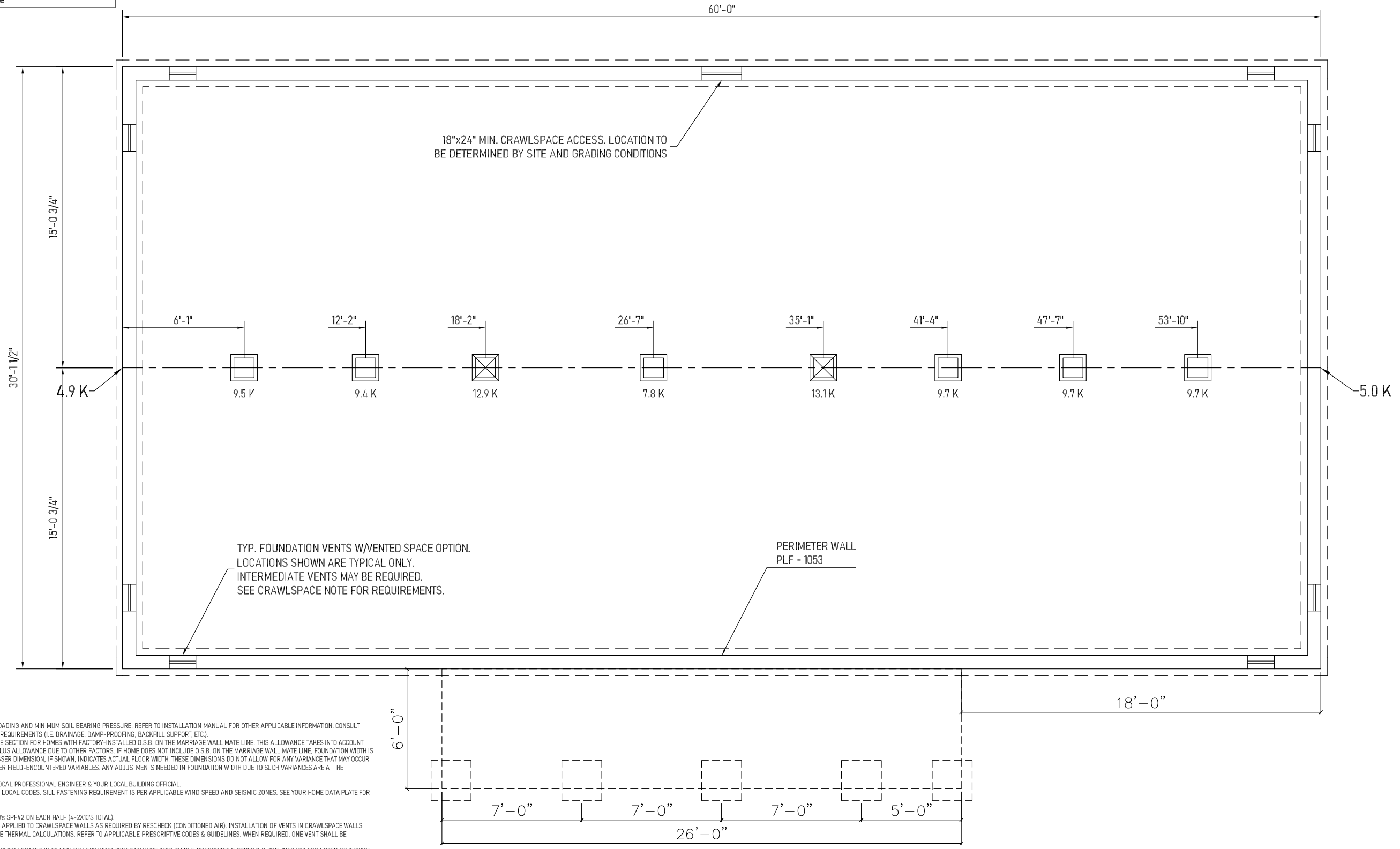
GROUND SNOW LOAD
20 PSF

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

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

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

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

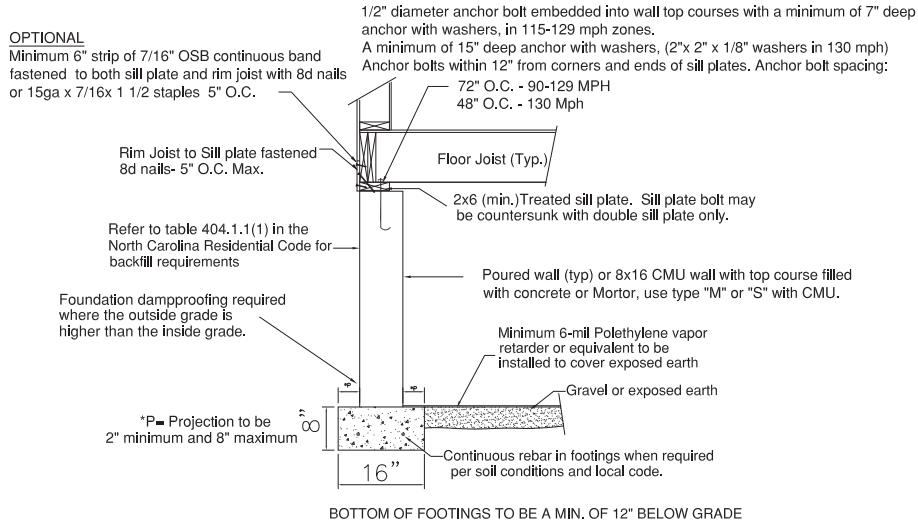


UNIT B

UNIT A

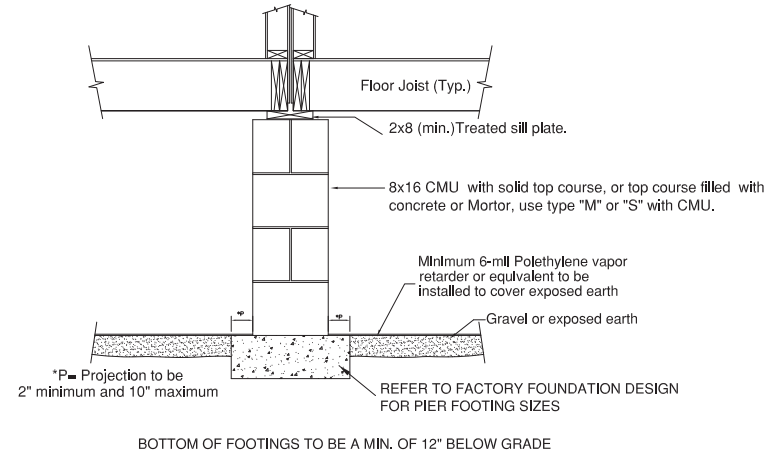
- 2X10 OR TRUSS FLOOR NOTES -
- FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
 - WIDTH DIMENSIONS SHOWN INCLUDE A 3/4" ALLOWANCE PER HOME SECTION FOR HOMES WITH FACTORY-INSTALLED O.S.B. ON THE MARRIAGE WALL MATE LINE. THIS ALLOWANCE TAKES INTO ACCOUNT THE 7/16" O.S.B. MATERIAL INSTALLED ON EACH MARRIAGE WALL PLUS ALLOWANCE DUE TO OTHER FACTORS. IF HOME DOES NOT INCLUDE O.S.B. ON THE MARRIAGE WALL MATE LINE, FOUNDATION WIDTH IS TO BE SIZED EQUAL TO ACTUAL MANUFACTURED FLOOR WIDTH. LESSER DIMENSION, IF SHOWN, INDICATES ACTUAL FLOOR WIDTH. THESE DIMENSIONS DO NOT ALLOW FOR ANY VARIANCE THAT MAY OCCUR IN SITE INSTALLATION SUCH AS GAPPING, OFF CENTER SET OR OTHER FIELD-ENCOUNTERED VARIABLES. ANY ADJUSTMENTS NEEDED IN FOUNDATION WIDTH DUE TO SUCH VARIANCES ARE AT THE DISCRETION OF THE INSTALLER.
 - FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
 - SILL PLATE FASTENING TO BE PER INSTALLATION MANUAL AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE YOUR HOME DATA PLATE FOR APPLICABLE ZONES.
 - CONCRETE COMPRESSIVE STRENGTH (FC): 2500 PSI MINIMUM.
 - CENTERLINE LINE SUPPORTS AND SPACING ARE BASED ON (2) 2X10s SPP#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.

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



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

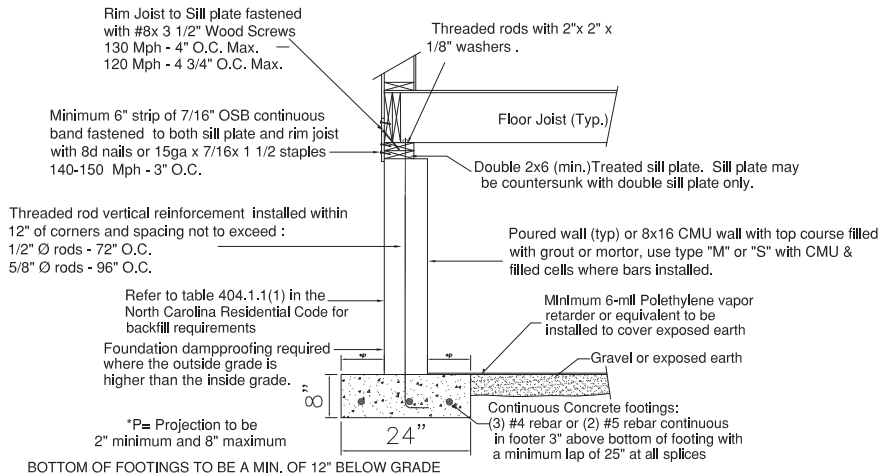
N.C. Pier Cross Section- All Zones- UP TO 3 STORIES



R404.1.5.4 Piers.

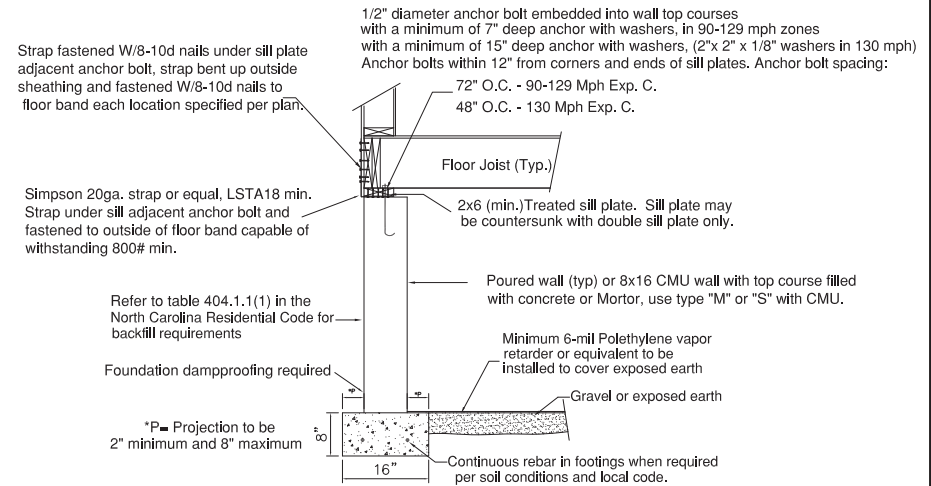
The unsupported height of masonry piers shall not exceed 10 times their least dimension. When structural clay tile or hollow concrete masonry units are used for isolated piers to support beams and girders, the cellular spaces shall be filled solidly with concrete or Type M or S mortar, except that unfilled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

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



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

N.C. 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.

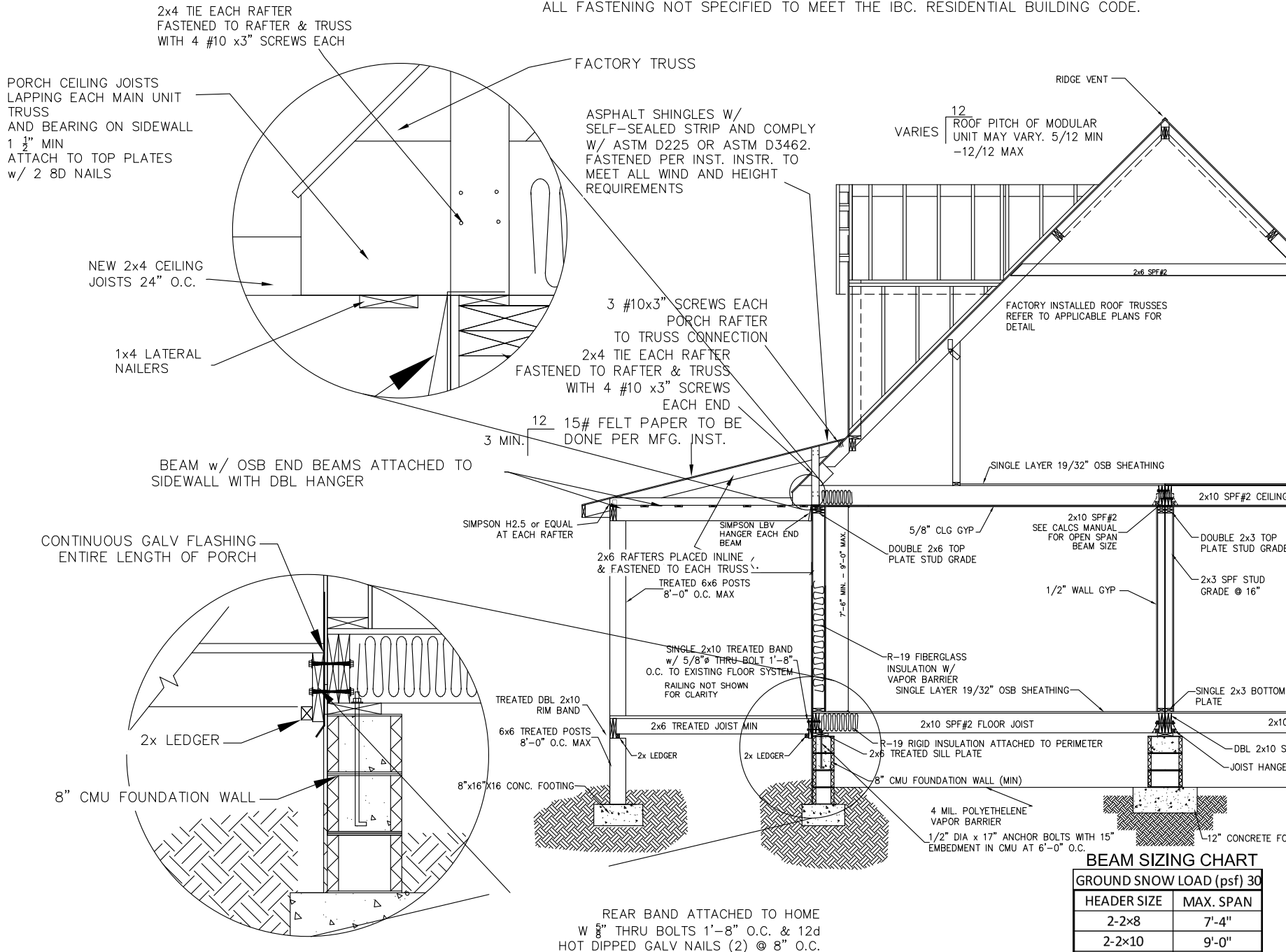
COUNTRY	ALL
STATE	NC
SNOW LOAD	20
WIND LOAD	
WIND SPEED	110 - 150
CUST. NO.	
DRAWING NAME	

CITY	
NOTE:	
BY:	
REVISION:	
DATE:	
11/18/18	
1/30/19	2018 CODE UPDATES
FRANC. WALL	PIER DETAILS 2021 DWG

HOMES BY VANDERBUILT

3300 JEFFERSON DAVIS HWY
SANFORD, NC 27332
PHONE: (919) 718-2780
FAX: (919) 718-2789

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



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

DATE:	7/08/08	REVISION:	CR1ED	BY:	BRB	NOTE:	
SHED PORCH DETAIL							

HOMES BY VANDERBUILT

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

BEAM SIZING CHART

GROUND SNOW LOAD (psf) 30

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

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

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

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:

3392 Abattoir Rd
 Angier, NC 27501
 HARNETT County

Occupancy:

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

Design Load:

Floor Area:1800 Sq.Ft.	Floor Live Load:40 psf
Ground Snow Load:20 psf	Floor Dead Load:10 psf
Top Chord Dead Load:7 psf	Bottom Chord Live Load:.....40 psf
Ultimate Wind Speed: 120 mph	Wind Exposure Category:B
Seismic Design Category: ...C	IECC Geographical Code:4

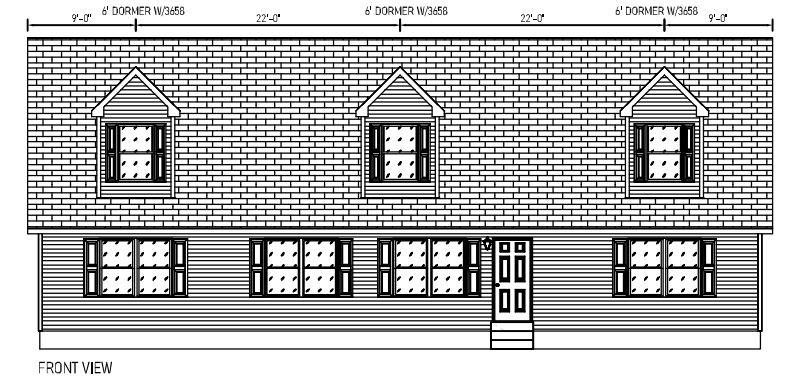
Insulation

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: 1R2058-V7
 Customer: PARNELL
 Builder: HBV
 Manufacturer:
R-Anell Housing Group, LLC
 Commodore Homes, LLC
 235 Anthony Grove Rd.
 Crouse, NC 28033

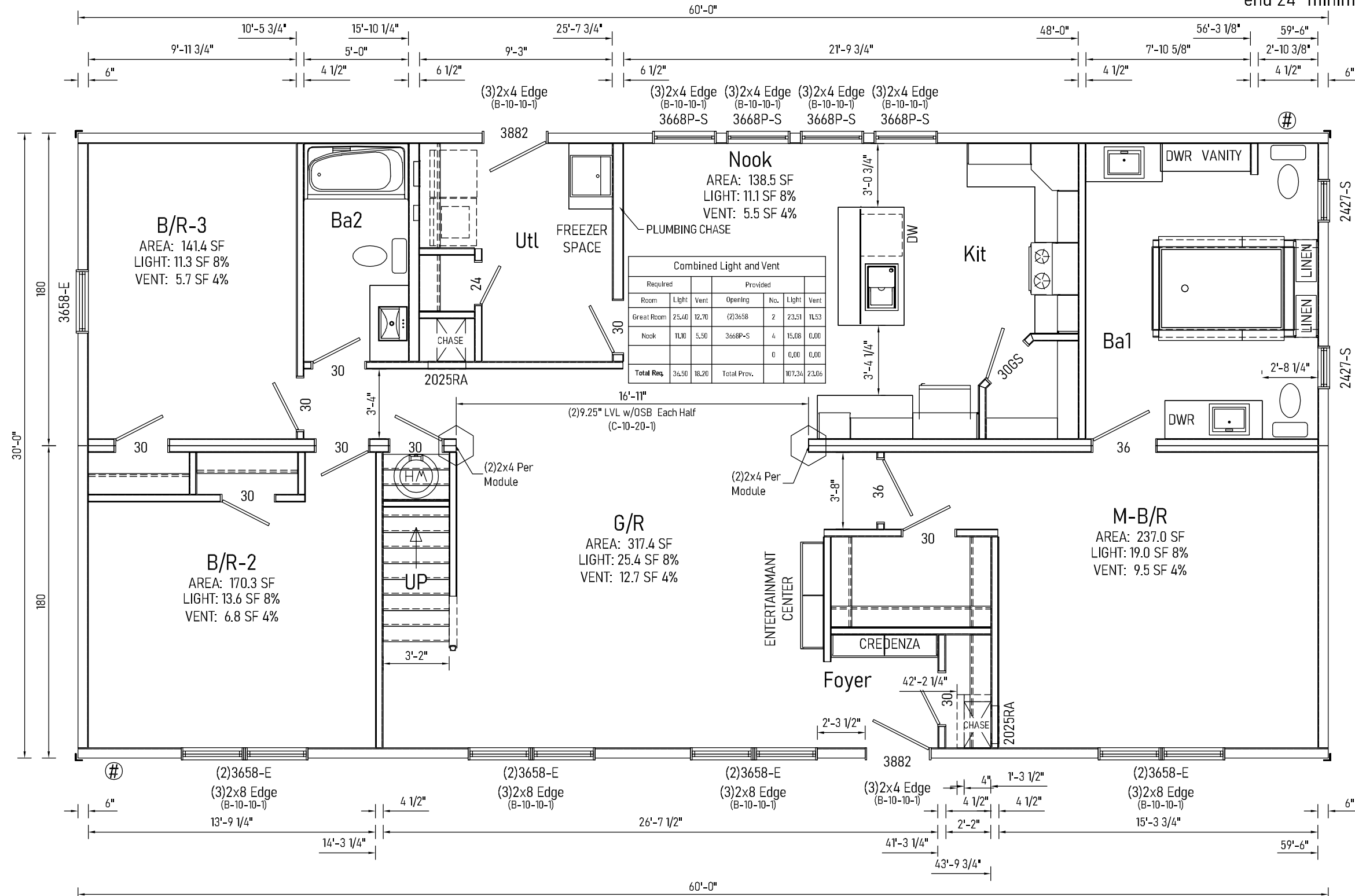


Drawing Index	
Title	Page
Cover	CV
Floor Plan	FP
Proposed Cape Floor Plan	PCFP
Electrical Plan	EP
Schedules and General Notes	NG
Elevations	EL
Cross Section	XS
Hot Water Lines	WH
Cold Water Lines	WC
DWV System	DL
DWV Notes	DN
Supply Air Ducts - Perimeter Registers	SP
Ceiling Return Air System	HR
Braced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



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

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



Notes:

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

See Schedules and General Notes Page

⬡ = Column Support Location

⬢ = Attic Access



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

Address: 235 Anthony Grove Rd. Crouse, NC 28033

Callout: 3260

Revisions

Scale: 3/16" = 1'-0"

Date: 07/29/2024

Cust: PARNELL

Title: Floor Plan

Drawn By: NE

Reference: NONE

Dtr: HBV

S/N: 44478

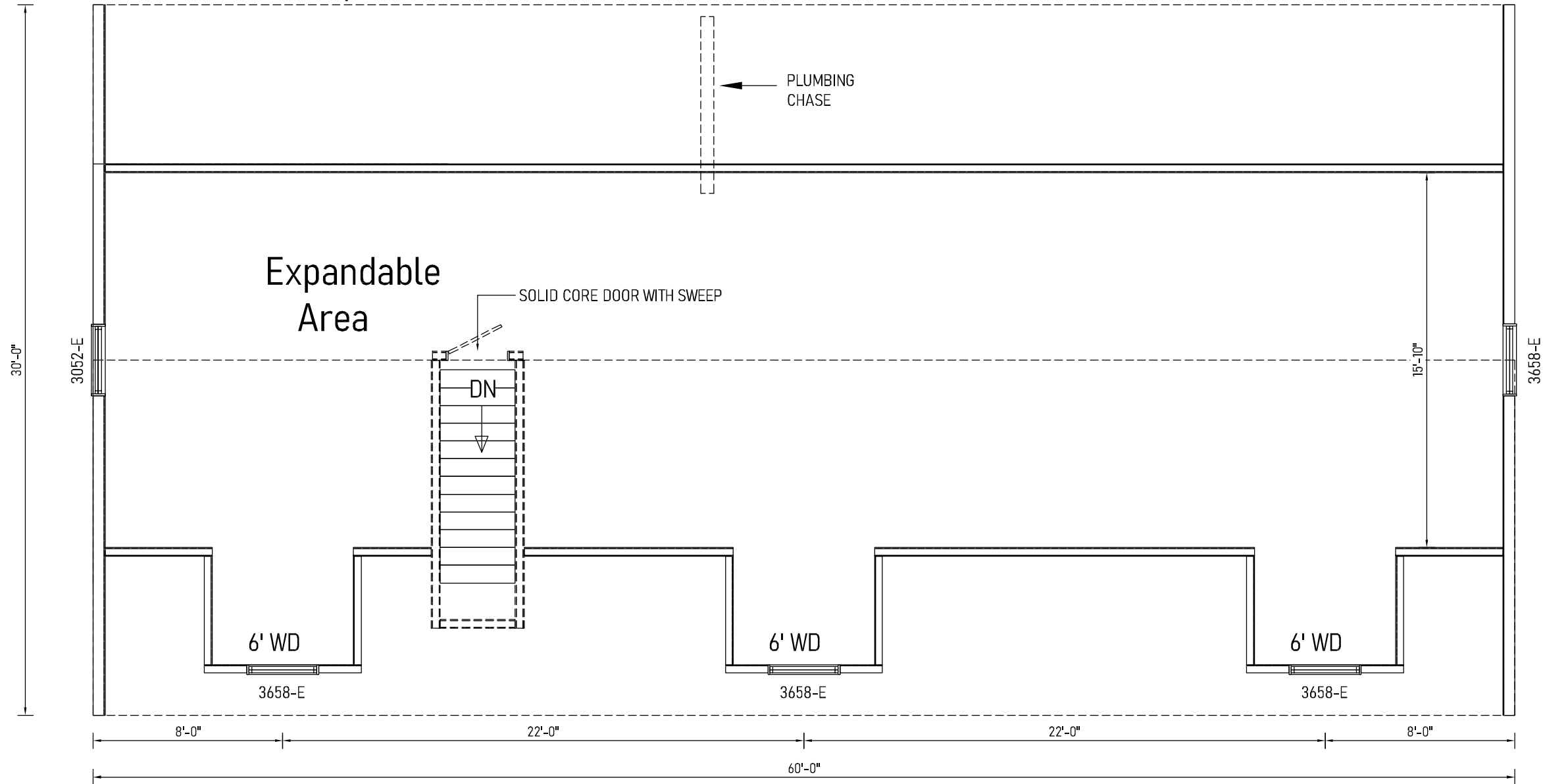
Model/Eng. No.: 1R2058-V7
FP

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

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

Smoke detectors required by code, that are not shown on the plan, must be site installed by others and are subject to inspection by the authority having jurisdiction.

NOTES: 30' 12/12 cape



Proposed Second Floor:
All design materials and work to be the responsibility of the builders on site to local codes. Light, vent, egress, heating and plumbing are the responsibility of the builder.
Area: 1061 sq. ft.

Notes:

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

Engineer seal applies ONLY to FACTORY MANUFACTURED portions of the building. Seal does not apply to site installed elements or portions built on site such as, but not limited to; foundation, connections to foundation, exterior steps, smoke detectors, or other site works. Site work must be designed BY OTHERS for site conditions, under local jurisdiction. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.

See Schedules and General Notes Page

○ = Column Support Location

AC = Attic Access

APPROVED BY
NIA 8/6/2024
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
Kip Whitehead

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

Address: 235 Anthony Grove Rd. Crouse, NC 28033

Callout: 3260

Revisions

Scale: 3/16" = 1'-0"

Date: 07/29/2024

Cust: PARNELL

Title: Proposed Cape Floor Plan

Drawn By: NE

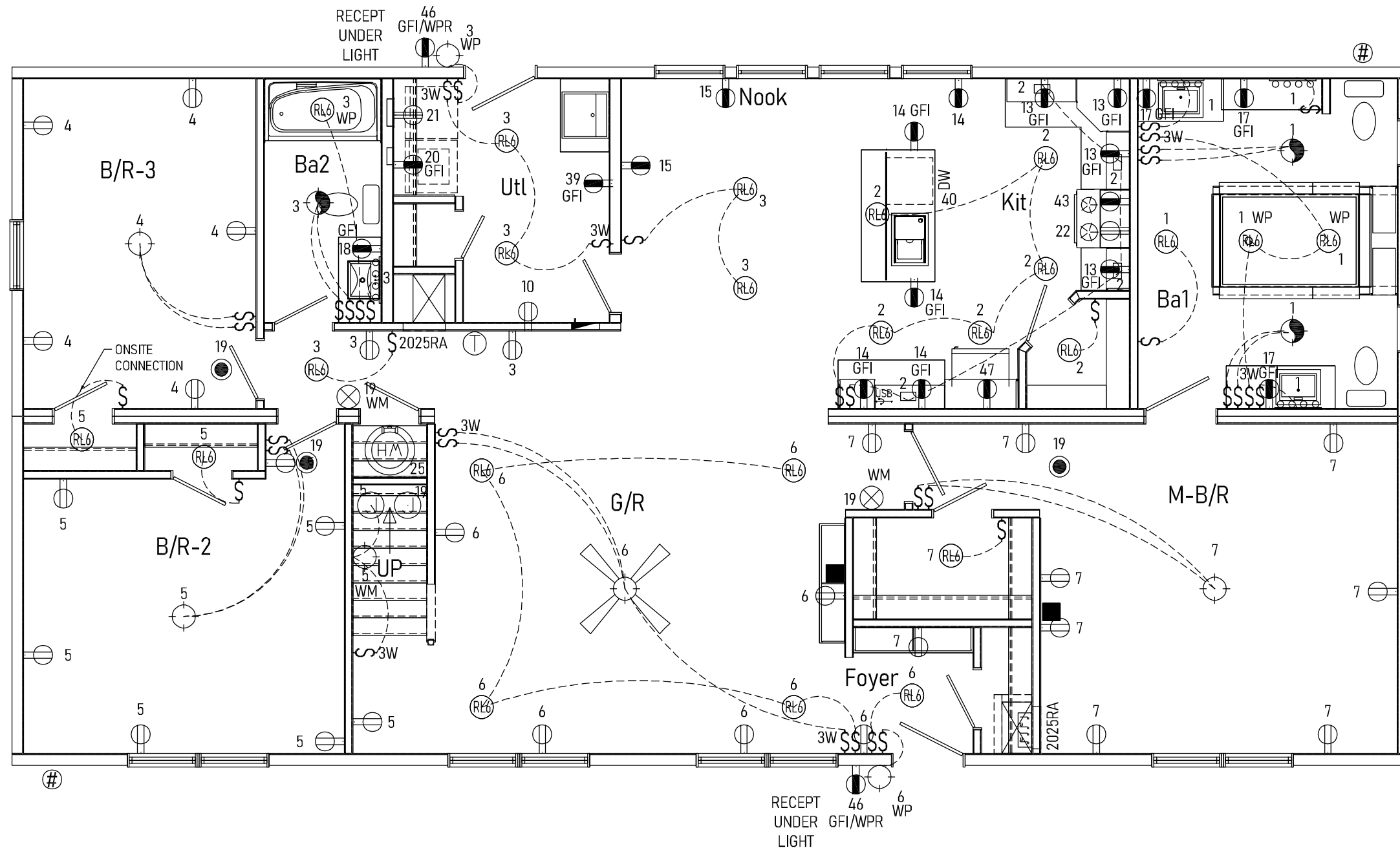
Reference: NONE


S/N: 44478

Dtr: HBV

Pg.: 3

Model/Eng. No.: 1R2058-V7
PCFP



APPROVED BY

 8/6/2024
 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
Kip Whitehead

See Schedules and General Notes Page

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

Address: 235 Anthony Grove Rd.
Crouse, NC 28033

Callout: 3260

Revisions

Scale: 3/16" = 1'-0"

Date: 07/29/2024

Cust: PARNELL

Title: Electrical Plan

Drawn By: NE

Reference: NONE

S/N: 44478

Pg.:

Model/Eng. No.:
1R2058-V7
 EP

Optional Method Load Calculation for One-Family Dwellings		Model # 1R2058-V7																									
1 General Lighting and Receptacle Loads 220.82(B)(1) <i>Do not include open porches, garages, or unused or unfinished spaces not adaptable for future use.</i>	3 x 2861 = (ft ² using outside dimensions)	1	8583																								
2 Small-Appliance Branch Circuits 220.82(B)(2) <i>At least two small-appliance branch circuits must be included. 210.11(C)(1)</i>	1500 x 3 = (minimum of two)	2	4500																								
3 Laundry Branch Circuits(s) 220.82(B)(2) <i>At least one laundry branch circuit must be included. 210.11(C)(2)</i>	1500 x 1 = (minimum of one)	3	1500																								
4 Appliances 220.82(B)(3) and (4) <i>Do NOT include any heating or A/C equipment in this section.</i> <i>Use the nameplate rating of all appliances (fastened in place, permanently connected, or connected to a specific circuit), ranges, ovens, cooktops, motors, and clothes dryers. Convert any nameplate rating given in amperes to volt-amperes by multiplying the amperes by the rated voltage.</i>	Total volt-amperes of all app. LISTED BELOW	4	34300																								
<table border="0"> <tr> <td>(1) Electric H₂O Heater</td> <td>4.5 KVA</td> <td>(4) Vent Fans</td> <td>1.2 KVA</td> </tr> <tr> <td>(1) Electric Dryer</td> <td>5.4 KVA</td> <td>(1) Microwave</td> <td>1.5 KVA</td> </tr> <tr> <td>(1) Electric Range</td> <td>14.2 KVA</td> <td>(1) Dishwasher</td> <td>1.5 KVA</td> </tr> <tr> <td>(0) Electric Wall Oven(S)</td> <td>0 KVA</td> <td>(1) Freezer</td> <td>1.5 KVA</td> </tr> <tr> <td>(0) Electric Wall Oven(D)</td> <td>0 KVA</td> <td>(1) Refrigerator</td> <td>1.5 KVA</td> </tr> <tr> <td>(2) Bath Circ's</td> <td>3 KVA</td> <td></td> <td></td> </tr> </table>		(1) Electric H ₂ O Heater	4.5 KVA	(4) Vent Fans	1.2 KVA	(1) Electric Dryer	5.4 KVA	(1) Microwave	1.5 KVA	(1) Electric Range	14.2 KVA	(1) Dishwasher	1.5 KVA	(0) Electric Wall Oven(S)	0 KVA	(1) Freezer	1.5 KVA	(0) Electric Wall Oven(D)	0 KVA	(1) Refrigerator	1.5 KVA	(2) Bath Circ's	3 KVA				
(1) Electric H ₂ O Heater	4.5 KVA	(4) Vent Fans	1.2 KVA																								
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(0) Electric Wall Oven(D)	0 KVA	(1) Refrigerator	1.5 KVA																								
(2) Bath Circ's	3 KVA																										
5 Apply 220.82(B) demand factor to the total of lines 1 through 4. 48883 - 10,000 = 38883 x 40% = 15553 + 10,000 = 25553 (total of lines 1-4)																											
6 Heating or Air-Conditioning System 220.82(C). <i>Use the nameplate ratings in volt-amperes for all applicable systems in lines a through e.</i>		c) Supplemental electric heating equipment for heat-pump systems. Include the heat-pump compressor(s) at 100%. If the heat-pump compressor is prevented from operating with the supplemental heat, omit the compressor.																									
a) Air-conditioning and cooling systems, including heat pumps without any supplemental electric heating: 6000 x 100% = a) 6000		d) Electric space-heating equipment, if fewer than four separately controlled units: 20000 x 65% = d) 13000																									
b) Electric thermal storage & other heating systems where the usual load is expected to be continuous at full nameplate value. <i>Systems qualifying under this selection shall not be figured under any other selection in 220.82(C).</i> 0 x 100% = b) 0		e) Electric space-heating equipment, if four or more separately controlled units: 0 x 40% = e) 0																									
7 Total Volt-Ampere 13000 + 25553 = 38553 Demand Load: (Largest VA rating, 6a - 6e) (Line 5)		7 38553																									
8 Minimum Amperes Divide the total volt-amperes by voltage. (line 7) (voltage) (min. amperes) = 38553 ÷ 240 = 161		9 Minimum Size Service or Feeder 240.6(A) 200 Amps Installed																									
10 Size the Service or Feeder Conductors. Use 310.15(B)(6) to find the service conductor up to 400 amperes. Ratings in excess of 400 amperes shall comply w/ Table 310.16. 310.15(B)(6) also applies to feeder conductors serving as the main power feeder.		10 Minimum Size Conductors 2/0 Copper OR 4/0 Aluminum																									

LEGEND			
		WPR = WEATHERPROOF ENCLOSURE WITH WEATHER RESISTANT RECPT	
	GFI = GROUND FAULT CIRCUIT INTERRUPTER		

CIRCUIT ID NO.	LOAD	AMPS	POLES REQ'D	WIRE SIZE
1-12	General Lighting/Receptacles	15	1	NM14-2/WG
13-16	Small Appliance	20	1	NM12-2/WG
17-18	Bath (GFCI)	20	1	NM12-2/WG
19	Smoke Alarms (AFCI)	15	1	NM14-2/WG
20	Laundry	20	1	NM12-2/WG
21	Electric Dryer	30	2	NM10-3/WG
22	Electric Range	50	2	NM6-3/WG
23	Electric Cooktop	40	2	NM8-3/WG
24	Electric Wall Oven	20	2	NM12-2/WG
	Electric Wall Oven	40	2	NM8-2/WG
25	Electric W/H	25	2	NM10-2/WG
25.1	Tankless W/H	20	1	NM12-2/WG
26	Gas Furnace	15	1	NM14-2/WG
27	Electric Furnace	60/30	4	NM4-2/WG
	Electric Furnace	60/60	4	NM4-2/WG
28-37	Electric BB Heat	20	2	NM12-2/WG
38	A/C	50	2	NM6-2/WG
39	Freezer	20	1	NM12-2/WG
40	Dishwasher	15	1	NM14-2/WG
41	Disposal (GFCI)	15	1	NM14-2/WG
42	Whirlpool Tub (GFCI)	20	1	NM12-2/WG
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

DOOR SCHEDULE					
Description	Label	R/O SF	Light	Vent	Design Load
3882 6 Panel Exterior Door	3882	21.70	0.00	20.76	+50/-50
3882 9 Lite Exterior Door	3882	21.70	5.12	20.76	+50/-50
24 Hinged Interior Door	24	14.99	0.00	0.00	NA
30 Hinged Interior Door	30	18.44	0.00	0.00	NA
36 Hinged Interior Door	36	21.90	0.00	0.00	NA
36 Cased Interior Opening	36	21.90	0.00	0.00	NA
30 Cased Interior Opening	30	18.44	0.00	0.00	NA
30 Hinged Interior Door	30GS	18.44	0.00	0.00	NA

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 210-7/NEC.
 - SPECS, WIRING, INSTALLATIONS, ETC. TO COMPLY WITH NEC REGULATIONS.
 - 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.
 - 120v 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.

If an attached garage is to be added to this home, the entrance door to the home from the garage must be a self-closing fire rated door per applicable code. Clothes dryer vents may need to be completed to the exterior of the home on site. Refer to sections of applicable local codes and to Section 8 of the home installation manual for required completion of dryer ventilation as necessary.

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.

REFER TO RESCHECK FOR DOOR AND WINDOW U-VALUES

WINDOW SCHEDULE										
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)3658-E	73	58.5	29.66	23.51	11.53	288.25	0.34	Yes	+50/-50	0.23
2427-S	24.5	27.5	4.68	3.01	1.32	33.00	0.34	No	+50/-50	0.23
3658-E	36.5	58.5	14.83	11.76	5.76	144.00	0.34	Yes	+50/-50	0.23
3668P-S	36.5	68.5	17.36	15.11	0.00	0.00	0.31	No	+50/-50	0.26

WINDOW SCHEDULE - PROPOSED CAPE										
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
3052-E	36.25	62	15.61	10.26	5.88	128.25	0.31	Yes	+50.13/-50.13	0.21
3658-E	36.5	58.5	14.83	11.76	5.76	144.00	0.34	Yes	+50/-50	0.23

APPROVED BY



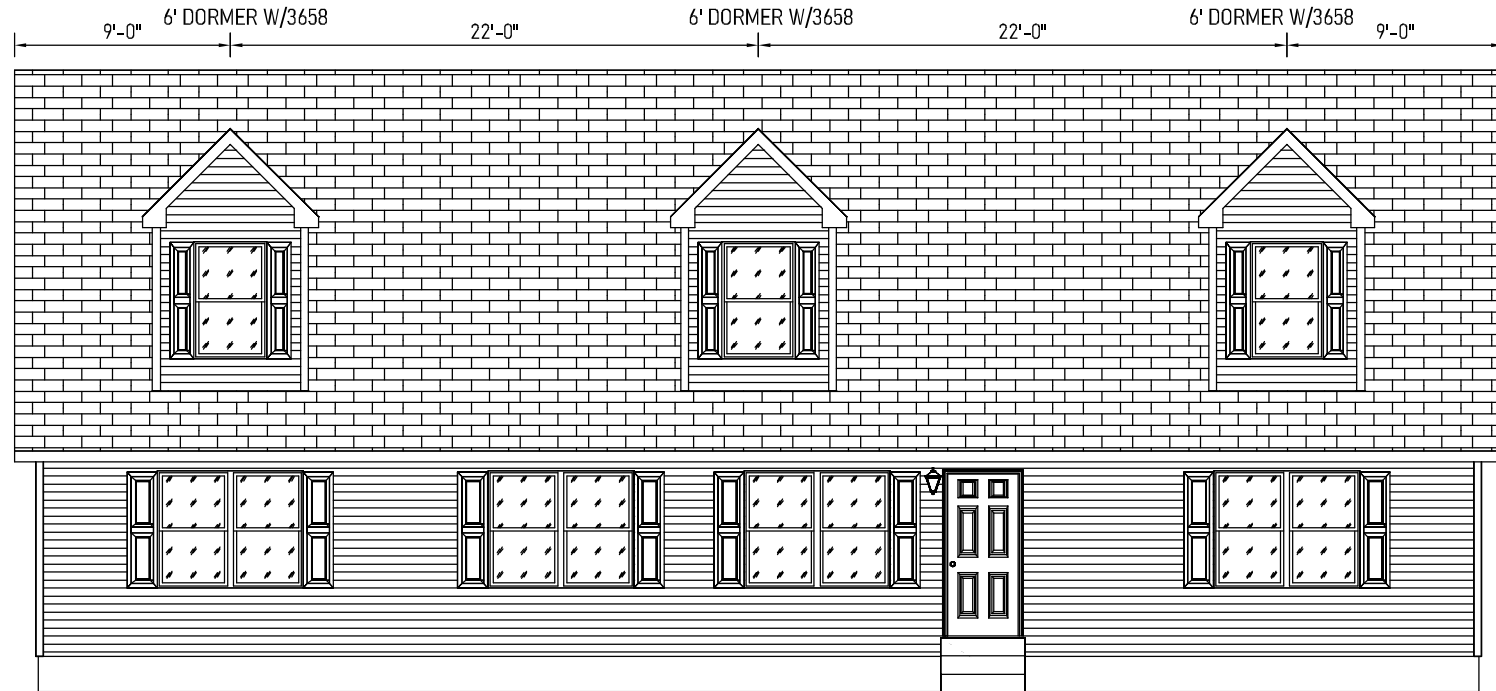
8/6/2024

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

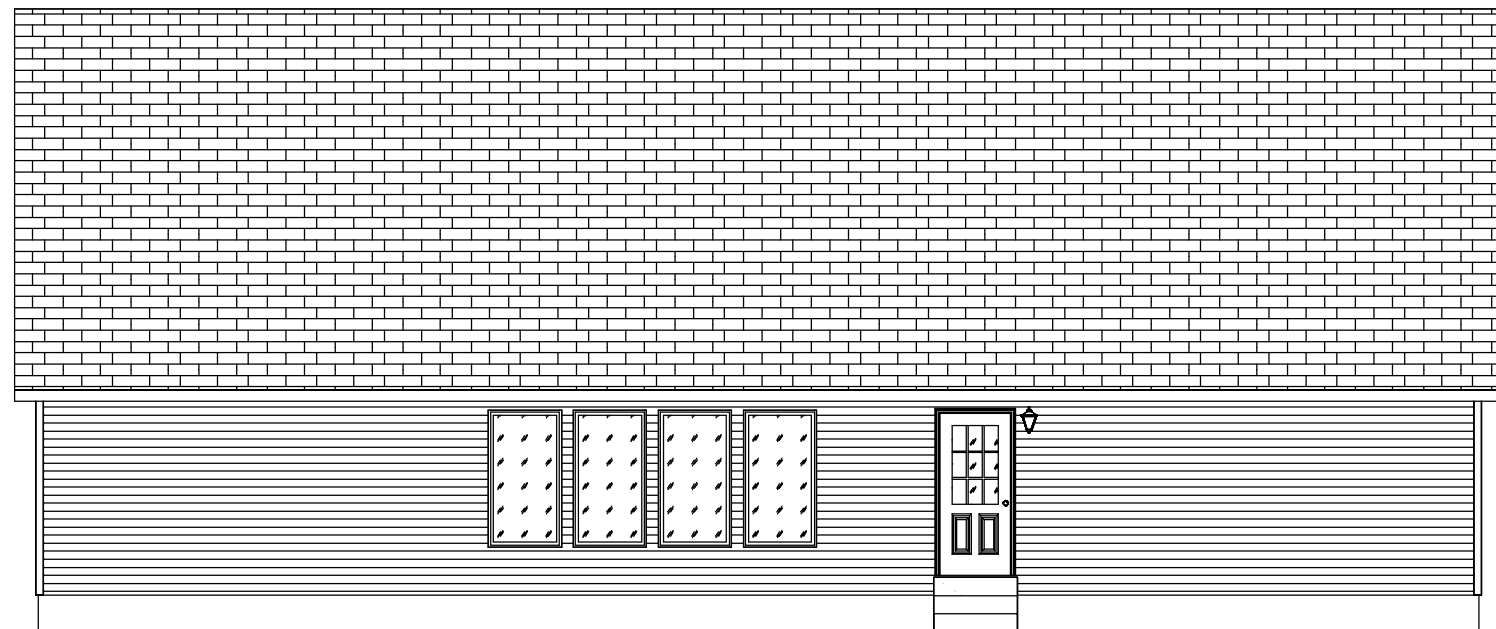
Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 3260	Revisions:	Scale: N.T.S.	Date: 07/29/2024	Cust: PARNELL	Model/Eng. No.: 1R2058-V7
Title: Schedules and General Notes			Drawn By: NE	Reference: NONE		Dlr: HBV	NG
						S/N: 44478	Pg.: NG

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

NOTE:
 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.



FRONT VIEW

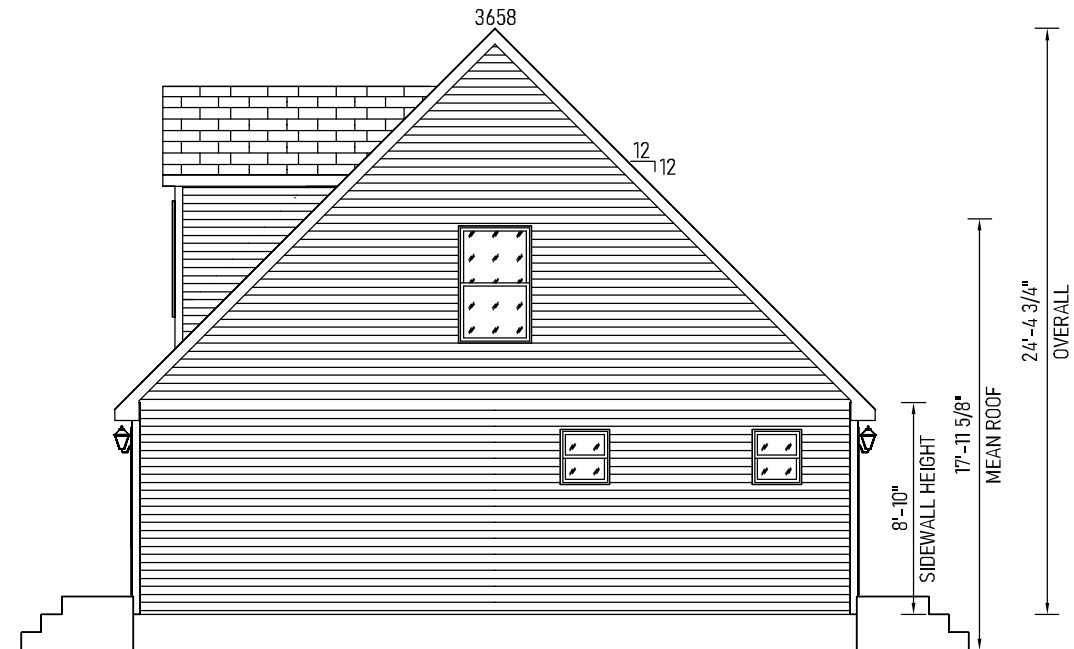


REAR VIEW

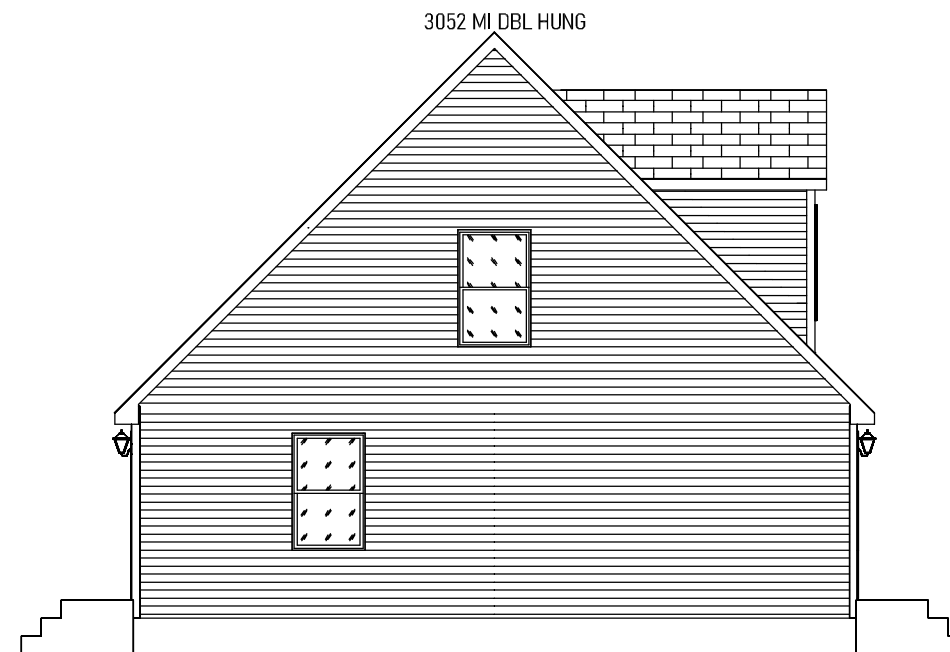
Note: Window fall protection must be provided on-site where required in accordance with applicable code.

-NOTES-

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



RIGHT VIEW



LEFT VIEW

APPROVED BY
NIA 8/6/2024
 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
 Kip Whitehead

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

Address: 235 Anthony Grove Rd. Crouse, NC 28033

Callout: 3260

Revisions

Scale: N.T.S. Date: 07/29/2024

Cust: PARNELL

Title: Elevations

Drawn By: NE

Reference: NONE

Dlr: HBV S/N: 44478

Model/Eng. No.: 1R2058-V7
 Pg.: EL

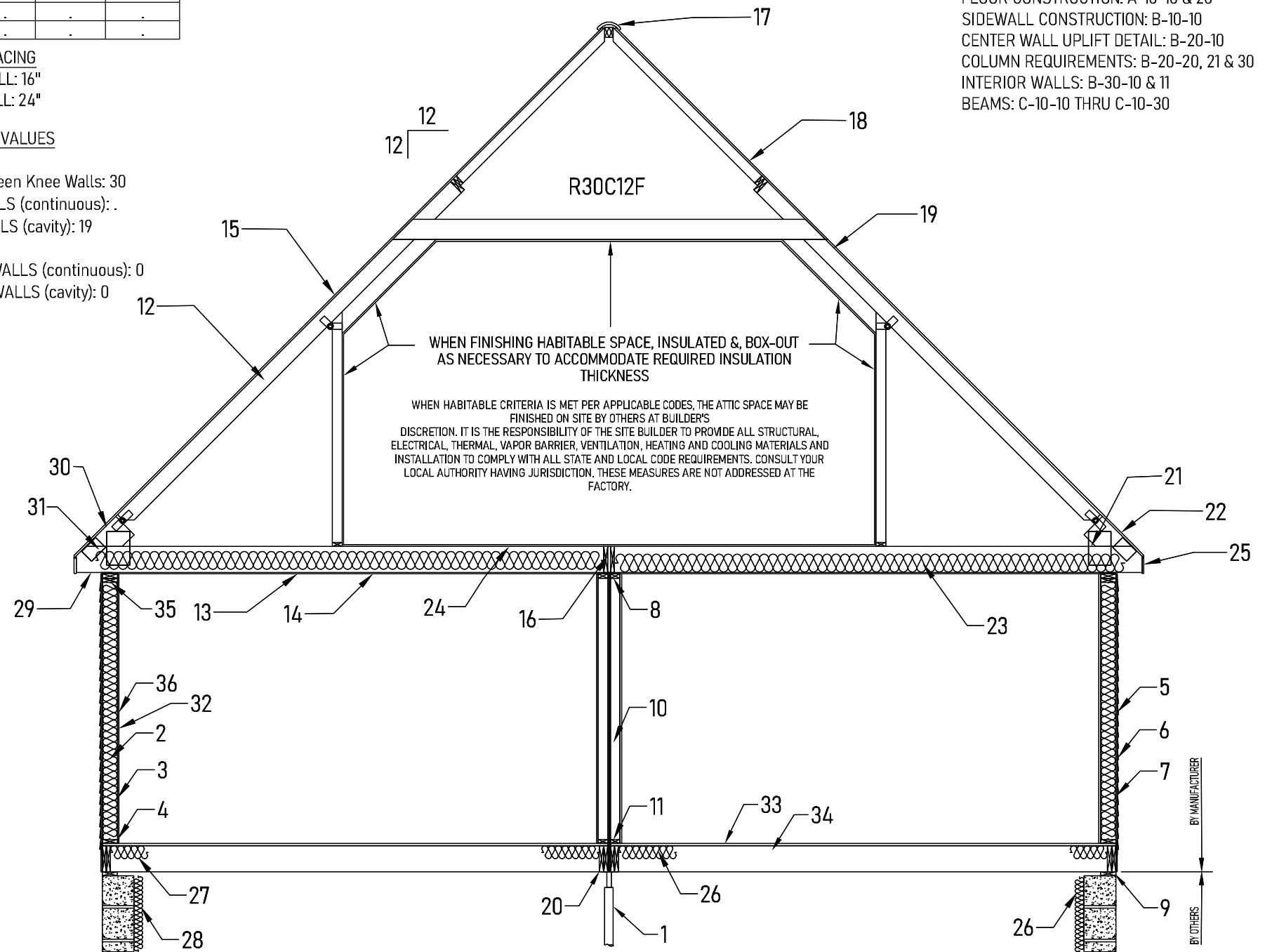
- LEGEND**
- 1 JACK POST, PIER OR CONCRETE FILLED POST THAT MEETS OR EXCEEDS REQUIRED SUPPORT CAPACITY PER FOUNDATION DESIGN.
 - 2 EXTERIOR WALL INSULATION (SEE INSULATION R-VALUES).
 - 3 2X6 #3 SPF EXTERIOR WALL STUDS. (SEE STUD O.C. SPACING NOTE)
 - 4 2X6 #3 SPF SIDEWALL BOTTOM PLATE.
 - 5 7/16" RATED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

Truss Data			
Truss #	Spacing	Sidewall	Centerline
R30C12F	24	1276	903
.	.	.	.
.	.	.	.

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
 FLOOR: 30
 FOUNDATION WALLS (continuous): 0
 FOUNDATION WALLS (cavity): 0

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



NOTES:
 FOLLOW RECOMMENDED ATTACHMENTS FOR FASTENING OF HOME TO FOUNDATION.
 FOUNDATIONS TO BE BUILT AND CONSTRUCTED BY OTHERS ON SITE.
 FOUNDATIONS (BY OTHERS) MUST MEET ALL APPLICABLE CODES.
 NOTES AND/OR ILLUSTRATIONS SHOWN ARE TYPICAL AND MAY NOT APPLY TO ALL HOMES CONSTRUCTED.
 CONSTRUCTION & SPECIFICATIONS MAY VARY PER PLAN.
 REFER TO INSTALLATION MANUAL FOR MODULE CONNECTIONS.
 REFER TO INSTALLATION MANUAL AND TRUSS MFG. DIAGRAM FOR ROOF TRUSS BRACING.

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 1800/300 = 6.00 VENT REQUIRED

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

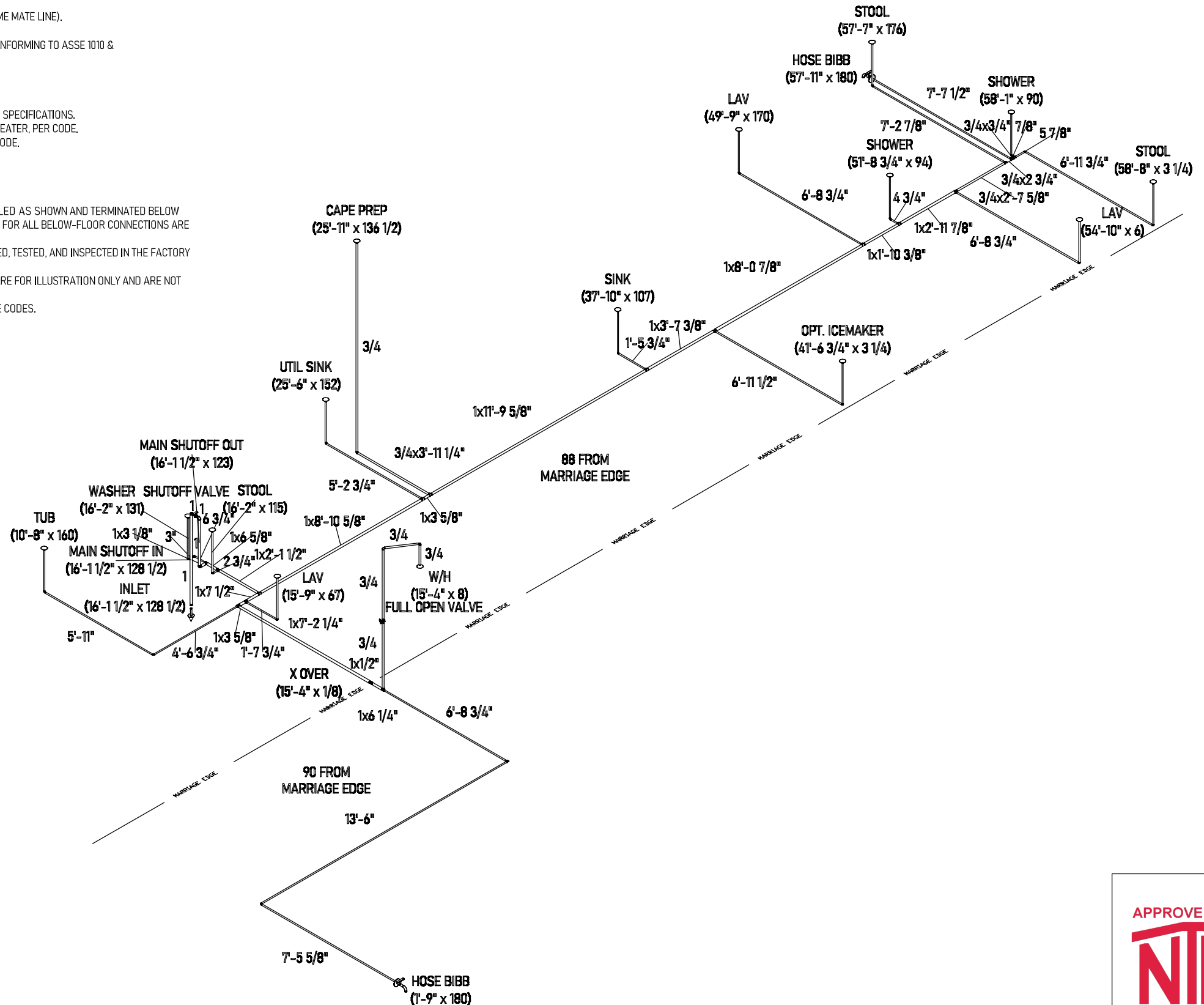


Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 3260	Revisions: []	Scale: 1/4" = 1'-0"	Date: 07/29/2024	Cust: PARNELL	Model/Eng. No.: 1R2058-V7
Title: Cross Section			Drawn By: NE	Reference: NONE		Dlr: HBV	XS
						S/N: 44478	Pg.: []

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

SITE NOTES FOR DIAGRAM EXPLANATION:

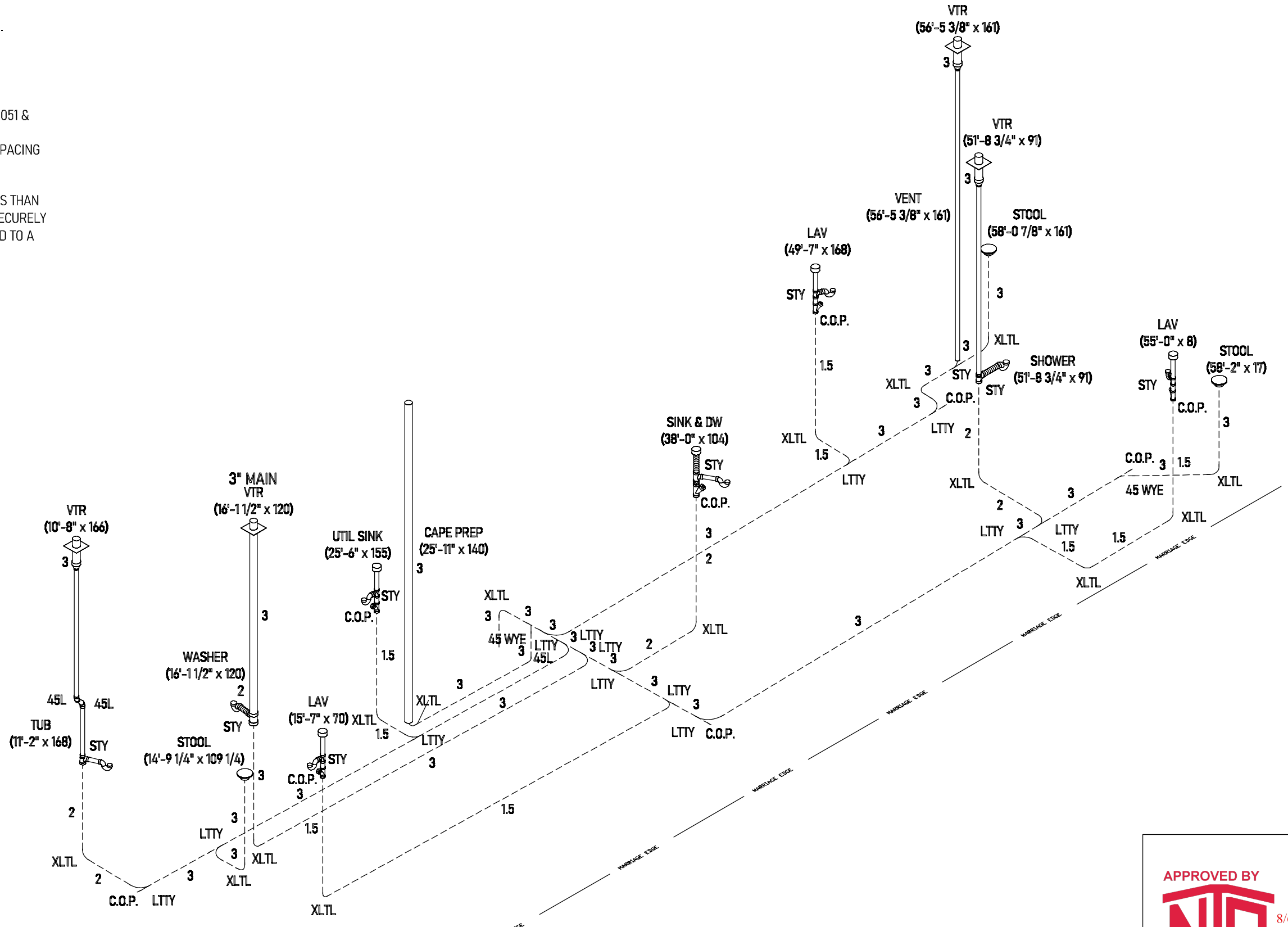
- WHEN VERTICAL FIXTURE WATER SUPPLY RISERS ONLY ARE SHOWN ON THIS PLAN, RISERS ONLY ARE FACTORY INSTALLED AS SHOWN AND TERMINATED BELOW THE FLOOR AT THE INDICATED LOCATIONS. MATERIAL PROVISIONS, SYSTEM CONNECTIONS, TESTING, AND INSPECTION FOR ALL BELOW-FLOOR CONNECTIONS ARE ON SITE BY OTHERS IN ACCORDANCE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



- 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

NOTE:

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

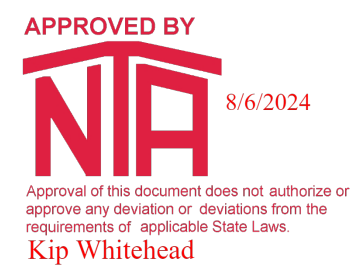


ALL DIMENSIONS FROM REAR AND MARRIAGE EDGE

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

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

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



PIPE SUPPORT:

VERTICAL PIPING:

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

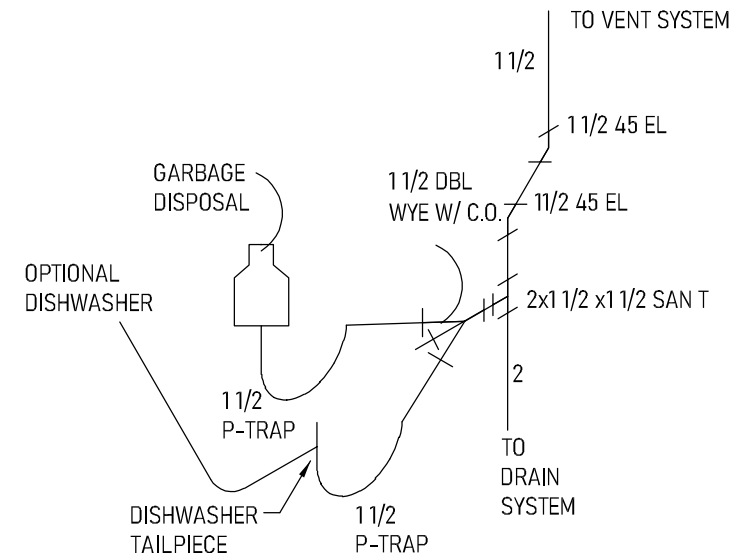
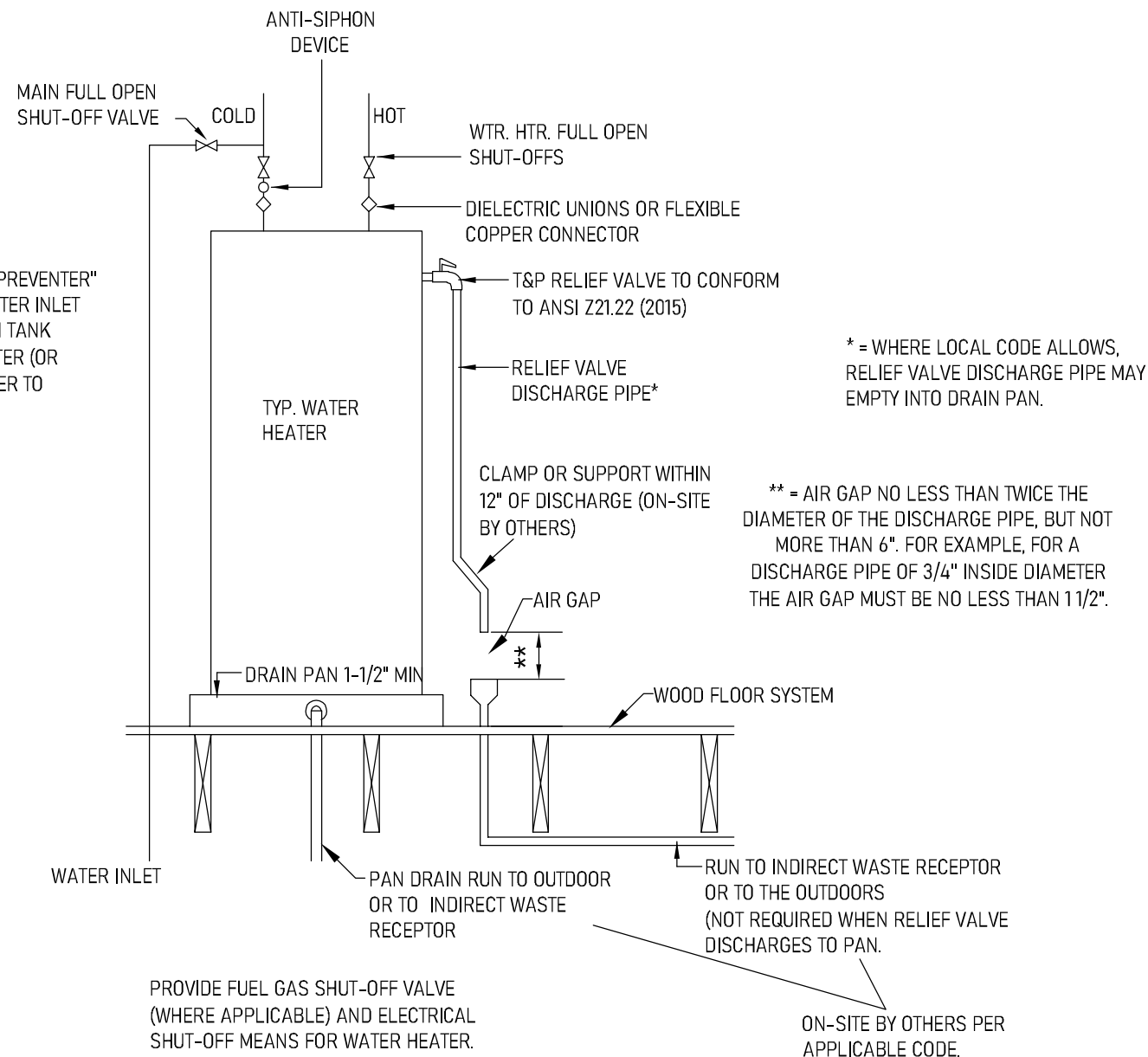
HORIZONTAL PIPING:

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

TRAP ARMS:

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

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.



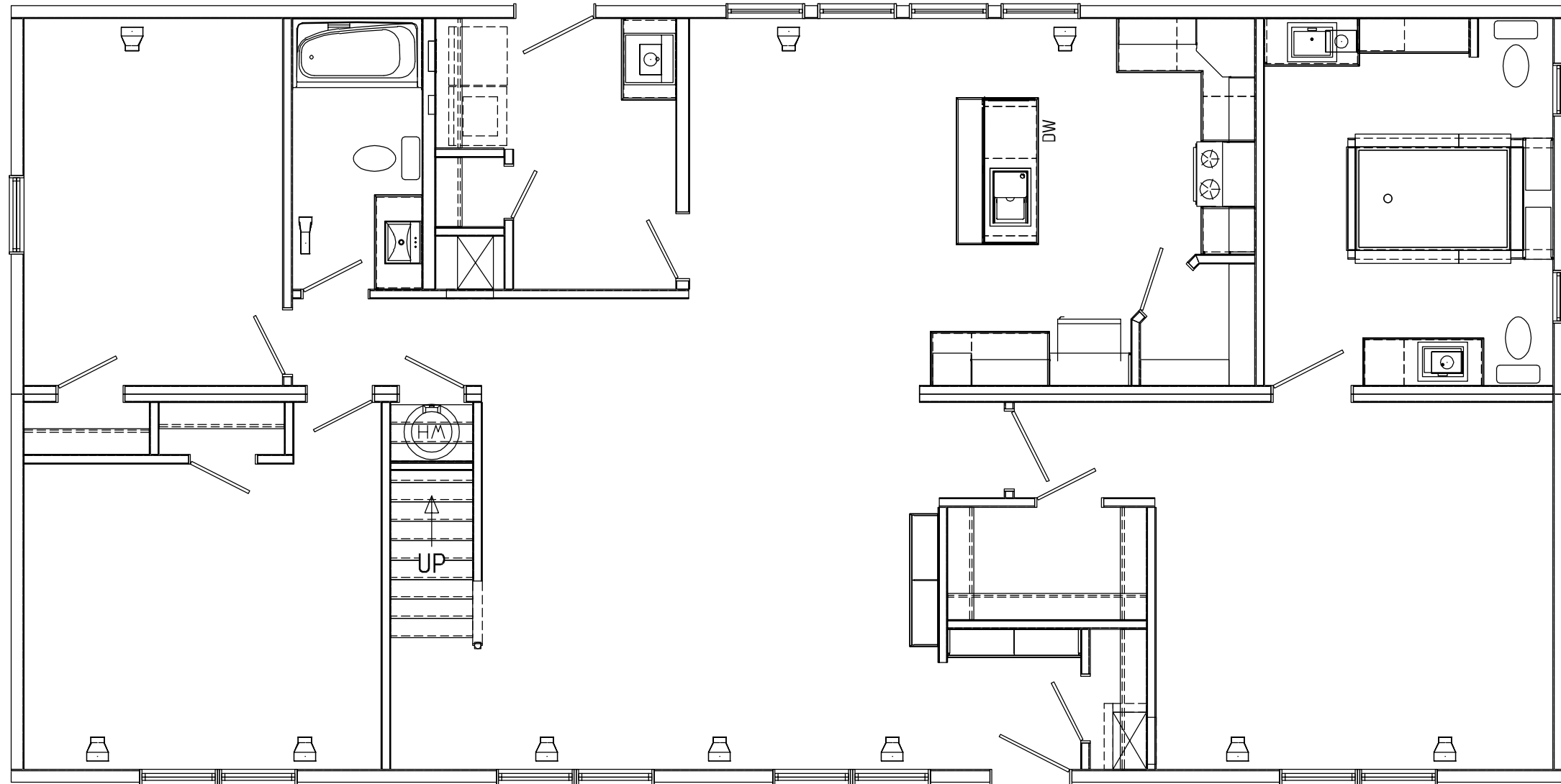
OPTIONAL GARBAGE DISPOSAL PLUMBING ILLINOIS MODELS ONLY - USE DETAIL ABOVE FOR OPTIONAL GARBAGE DISPOSAL.

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

APPROVED BY

 8/6/2024
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Kip Whitehead

Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 3260	Revisions:	Scale: N.T.S.	Date: 07/29/2024	Cust: PARNELL	Model/Eng. No.: 1R2058-V7
Title: DWV Notes			Drawn By: NE	Reference: NONE		Dlr: HBV	DN
						S/N: 44478	Pg.: 11



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

HVAC MUST BE INSTALLED BY A LICENSED HVAC TECHNICIAN - PER CODE REQUIREMENTS

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

Address: 235 Anthony Grove Rd.
 Crouse, NC 28033

Callout: 3260

Revisions

Scale: 3/16" = 1'-0"

Date: 07/29/2024

Cust: PARNELL

Title: Supply Air Ducts - Perimeter Registers

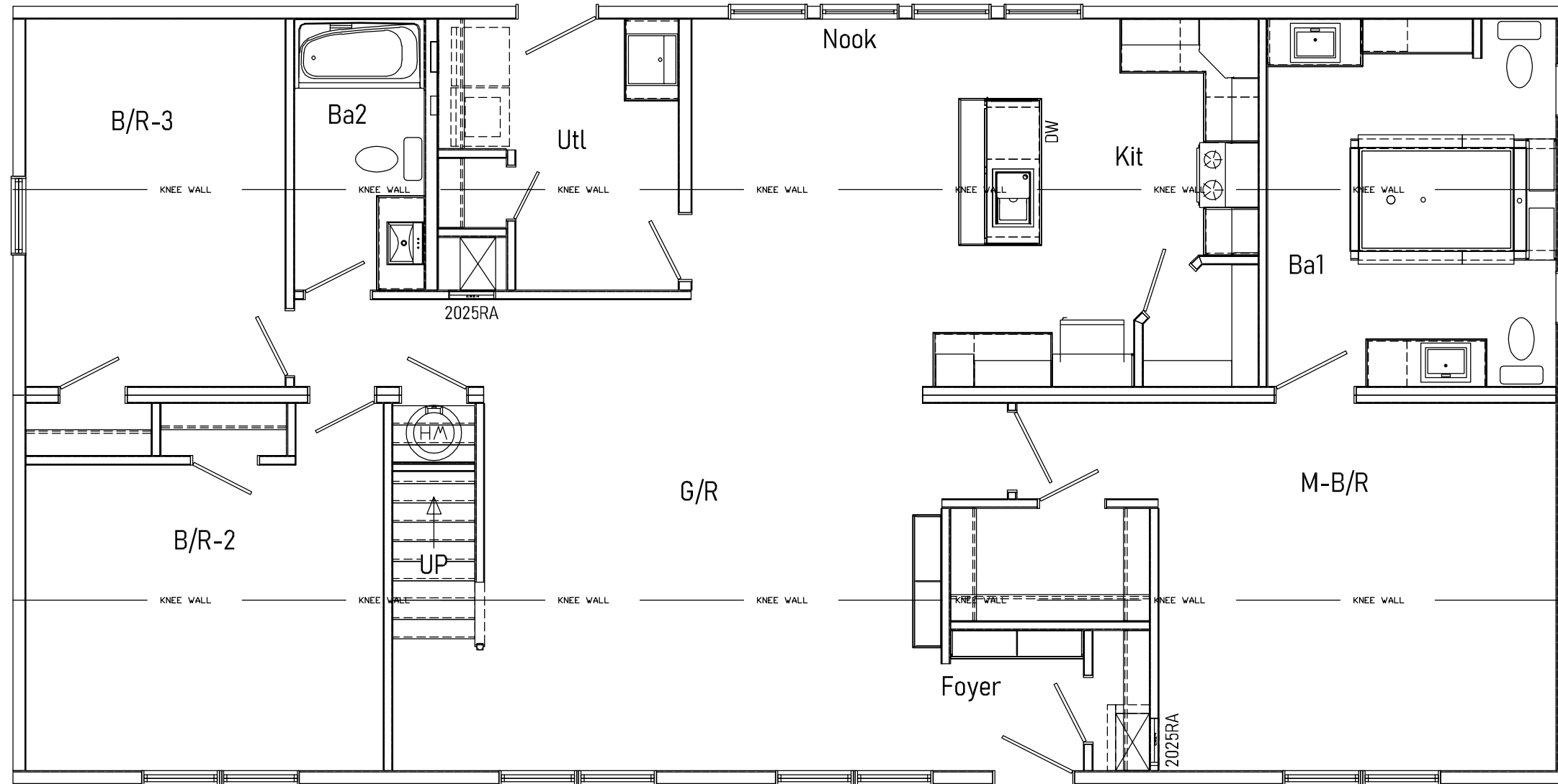
Drawn By: NE

Reference: NONE

S/N: 44478

Pg.:

Model/Eng. No.: 1R2058-V7
 SP



CEILING ROOM TO ROOM RETURN AIR JUMPERS ARE OMITTED
 BUILDER RESPONSIBILITY ONSITE

RETURNS IN CEILING IN ADDITION TO AIR THRU GRILLES/OPENINGS

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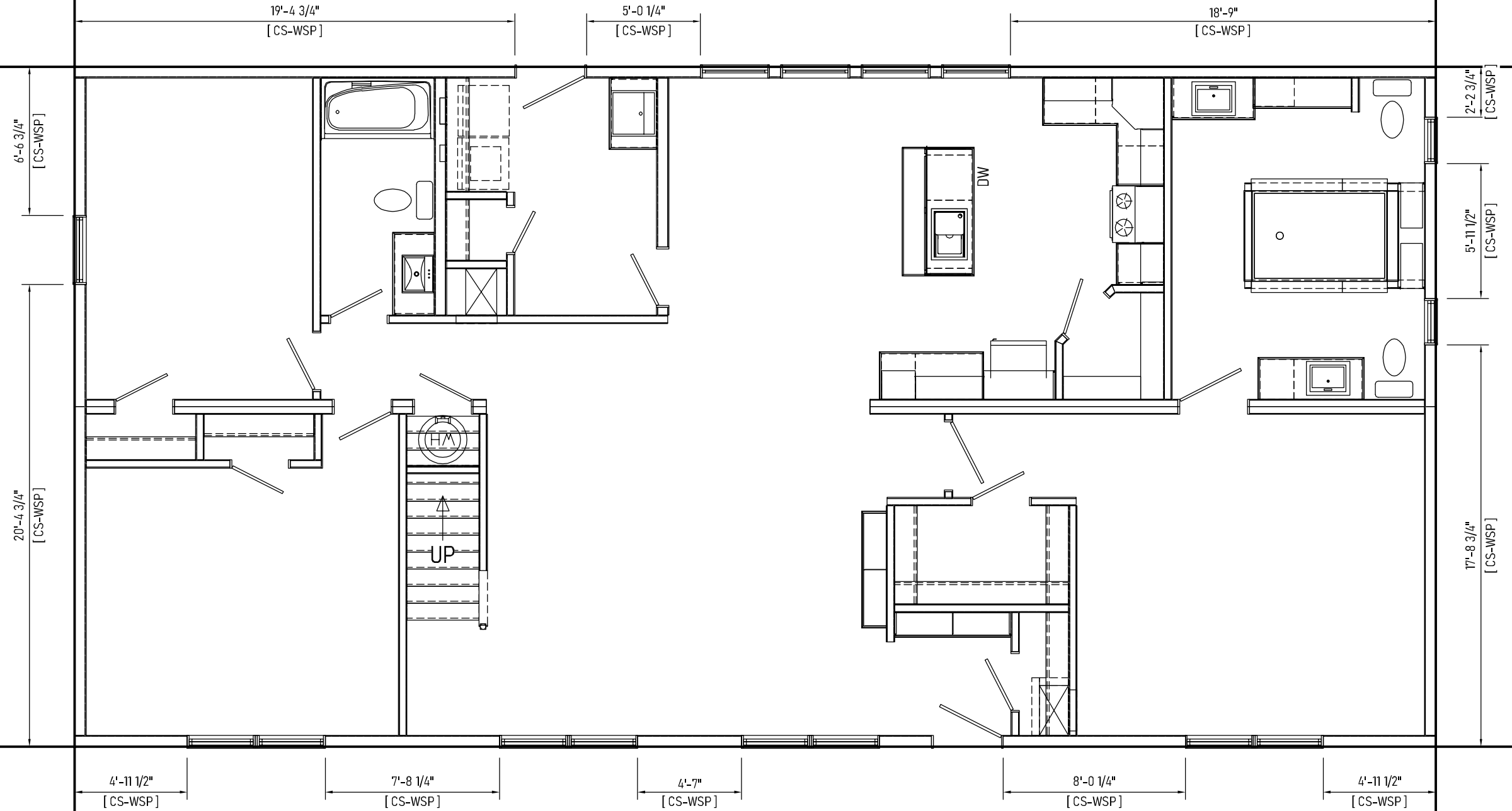
Builder: R-Anell Housing Group, LLC - Subsidiary of The Commodore Corp.	Address: 235 Anthony Grove Rd. Crouse, NC 28033	Callout: 3260	Revisions	Scale: 3/16" = 1'-0"	Date: 07/29/2024	Cust: PARNELL	Model/Eng. No.: 1R2058-V7
Title: Ceiling Return Air System			Drawn By: NE	Reference: NONE		Dlr: HBV	HR
						S/N: 44478	Pg.: N:\R-ANELL\1R\22-1R2058-V7

VERTICAL BWL 1	
REQUIRED	8.06
PROVIDED	26.96
MEETS REQ	YES
% SHEATHED	89%

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


VERTICAL BWL 2	
REQUIRED	8.06
PROVIDED	25.92
MEETS REQ	YES
% SHEATHED	86%

HORIZONTAL BWL 1	
REQUIRED	4.19
PROVIDED	43.17
MEETS REQ	YES
% SHEATHED	71%



HORIZONTAL BWL 2	
REQUIRED	4.19
PROVIDED	30.21
MEETS REQ	YES
% SHEATHED	54%

Braced Wall										
Unit	Method	Wind Load	Wind Load Method	Width	Length	Exposure	Roof Pitch	Sidewall Height	Seismic	Max. Mean Roof Height
MAIN	2018 NC RC	120 mph	Ultimate	30'-0"	60'-0"	B	12/12	8'-0"	C	IRC

 = Factory Installed Hold-Down Device with a Minimum Uplift Design Value of 800 LB.

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

Bracing per prescriptive North Carolina 2018 Residential code.

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

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Footing size (in.)	Footing max. load (lbs.) for 8" x16" pier		
	1500 PSF	2000 PSF	2500 PSF
*16x16x6	2.5K	3.4K	4.3K
*20x20x6	4.0K	5.3K	6.7K
24x24x8	5.6K	7.6K	9.6K
30x30x10	8.5K	11.7K	14.8K
36x36x12	12.4K	16.7K	20.7K
42x42x14	16.5K	22.4K	28.2K
48x48x14	21.2K	N/A	N/A

* = A 4" thick pre-cast footer of equivalent width and length may be used in place of a 6" thick cast in place footer.

Footer size must be designed by others to site conditions if noted kip load exceeds capacities listed above

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

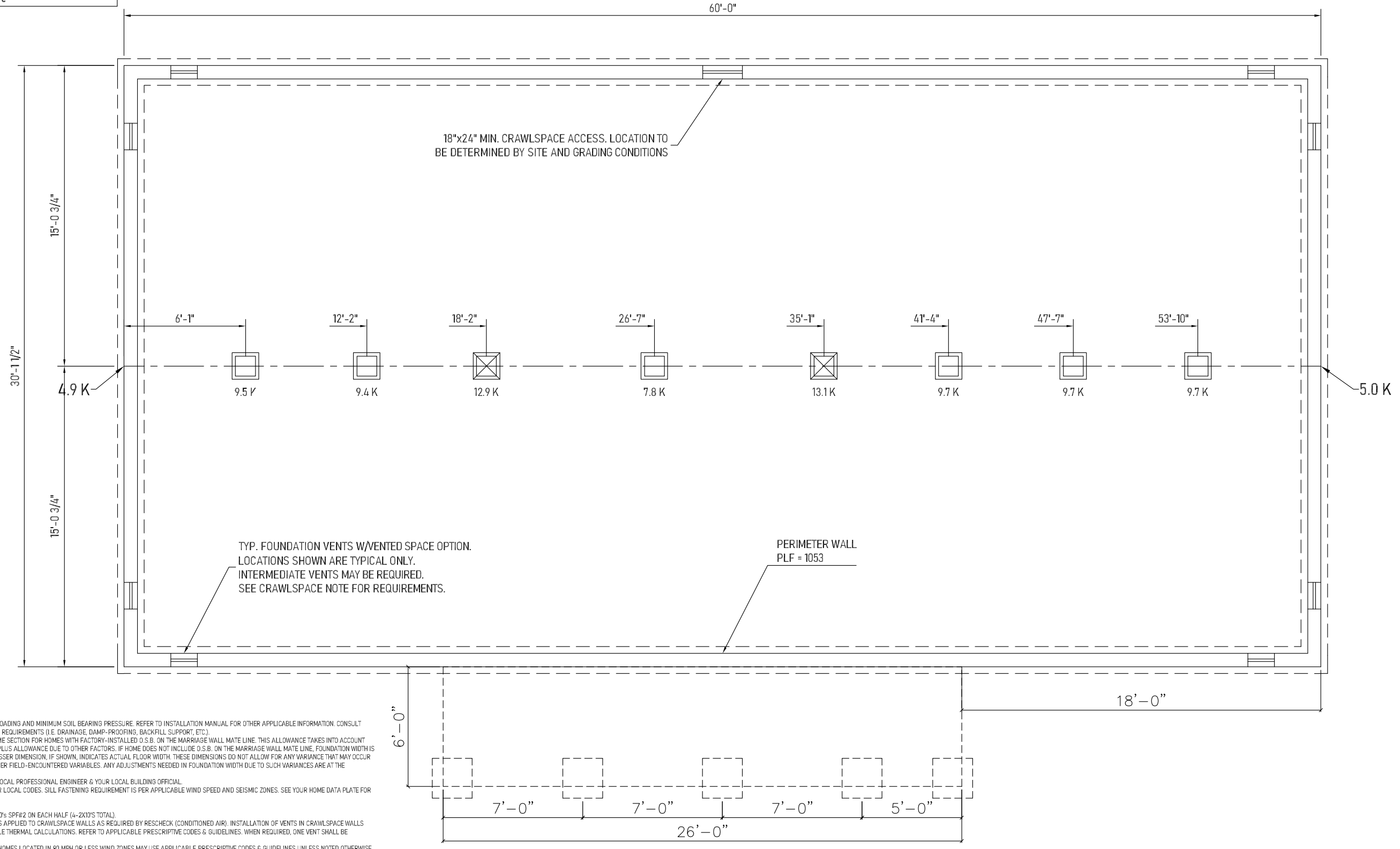
GROUND SNOW LOAD
20 PSF

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

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

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

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



UNIT B

UNIT A

- 2X10 OR TRUSS FLOOR NOTES -
- FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
 - WIDTH DIMENSIONS SHOWN INCLUDE A 3/4" ALLOWANCE PER HOME SECTION FOR HOMES WITH FACTORY-INSTALLED O.S.B. ON THE MARRIAGE WALL MATE LINE. THIS ALLOWANCE TAKES INTO ACCOUNT THE 7/16" O.S.B. MATERIAL INSTALLED ON EACH MARRIAGE WALL PLUS ALLOWANCE DUE TO OTHER FACTORS. IF HOME DOES NOT INCLUDE O.S.B. ON THE MARRIAGE WALL MATE LINE, FOUNDATION WIDTH IS TO BE SIZED EQUAL TO ACTUAL MANUFACTURED FLOOR WIDTH. LESSER DIMENSION, IF SHOWN, INDICATES ACTUAL FLOOR WIDTH. THESE DIMENSIONS DO NOT ALLOW FOR ANY VARIANCE THAT MAY OCCUR IN SITE INSTALLATION SUCH AS GAPPING, OFF CENTER SET OR OTHER FIELD-ENCOUNTERED VARIABLES. ANY ADJUSTMENTS NEEDED IN FOUNDATION WIDTH DUE TO SUCH VARIANCES ARE AT THE DISCRETION OF THE INSTALLER.
 - FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
 - SILL PLATE FASTENING TO BE PER INSTALLATION MANUAL AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE YOUR HOME DATA PLATE FOR APPLICABLE ZONES.
 - CONCRETE COMPRESSIVE STRENGTH (FC): 2500 PSI MINIMUM.
 - CENTERLINE LINE SUPPORTS AND SPACING ARE BASED ON (2) 2X10'S SP#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.



Generated by REScheck-Web Software Compliance Certificate

Project 1R2058-V7

Energy Code: **2018 IECC**
 Location: **Harnett County, North Carolina**
 Construction Type: **Single-family**
 Project Type: **New Construction**
 Orientation: **Unspecified**
 Conditioned Floor Area: **1,800 ft2**
 Glazing Area: **12%**
 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**

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 8/6/2024
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 Kip Whitehead

Construction Site:
3392 Abattoir Rd
Angier, North Carolina 27501

Owner/Agent:
PARNELL
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: **3.2% Better Than Code** Maximum UA: **310** Your UA: **300** Maximum SHGC: **0.40** Your SHGC: **0.24**
 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	850	38.0	0.0	0.030	0.026	26	22
Ceiling 2 [Between knee walls]: Flat Ceiling or Scissor Truss	950	30.0	0.0	0.035	0.026	33	25
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Right side	263	19.0	0.0	0.060	0.060	15	15
Window - Kinro SH 2427 {Qty 2}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Right side	9			0.340	0.320	3	3
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Left side	263	19.0	0.0	0.060	0.060	15	15

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Window - Kinro SH 3658 {Qty 1}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Left side	15			0.340	0.320	5	5
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Back	526	19.0	0.0	0.060	0.060	26	26
Door - Hinged - Exterior - 9 Lite {Qty 1}: null Orientation: Back	22			0.290	0.320	6	7
Window - Kinro 3668 Picture {Qty 4}: Vinyl Frame:Double Pane with Low-E SHGC: 0.26 Orientation: Back	69			0.310	0.320	21	22
Wall [1walls]: Wood Frame, 16" o.c. Orientation: Front	526	19.0	0.0	0.060	0.060	23	23
Door - Hinged - Exterior - 6 Panel {Qty 1}: Solid Orientation: Front	22			0.170	0.320	4	7
Window - (2) Kinro SH 3658 {Qty 4}: Vinyl Frame:Double Pane with Low-E SHGC: 0.23 Orientation: Front	119			0.340	0.320	40	38
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	1,800	30.0	0.0	0.033	0.047	59	85

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.

N. Edwards - drafter
Name - Title

N. Edwards
Signature

7/29/2024
Date





2018 IECC Energy Efficiency Certificate

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	0.29	

Heating & Cooling Equipment	Efficiency
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Heating System: _____	_____
Cooling System: _____	_____
Water Heater: _____	_____

Name: _____ Date: _____

Comments

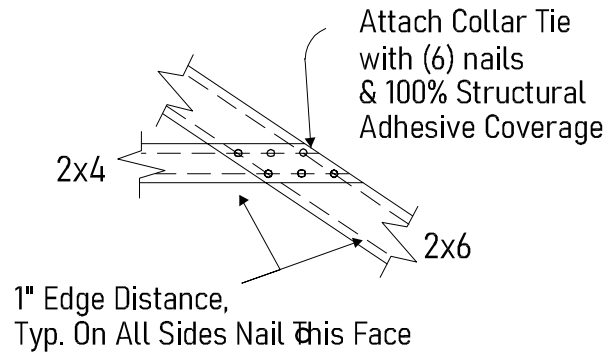
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Kip Whitehead

Job 32802	Truss A098601	Truss Type RIGID COLLAR TIE CONNECTION DETAILS 1	Qty	Ply	UFP ENGINEERING 1 Bulletin 05-02 REF # 2001092
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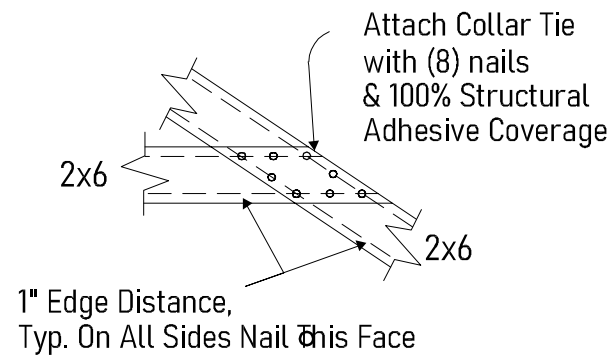
Universal Forest Products Inc., Grand Rapids, MI 49525,

**2x4 Collar Tie
Nailed to 2x6 Chord**



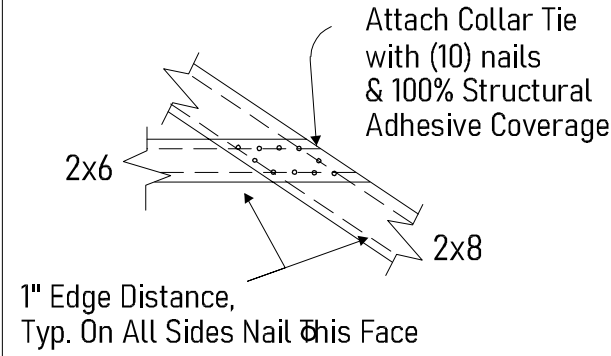
Detail (A)

**2x6 Collar Tie
Nailed to 2x6 Chord**



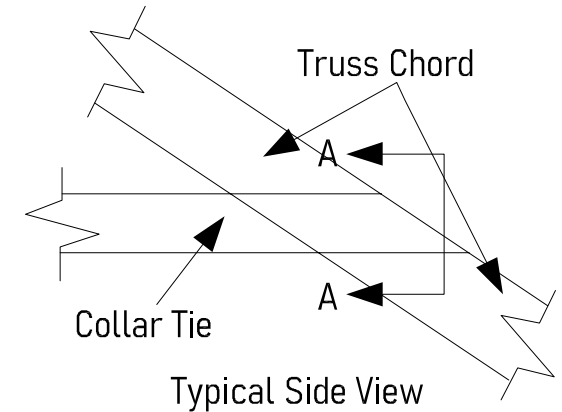
Detail (B)

**2x6 Collar Tie
Nailed to 2x8 Chord**

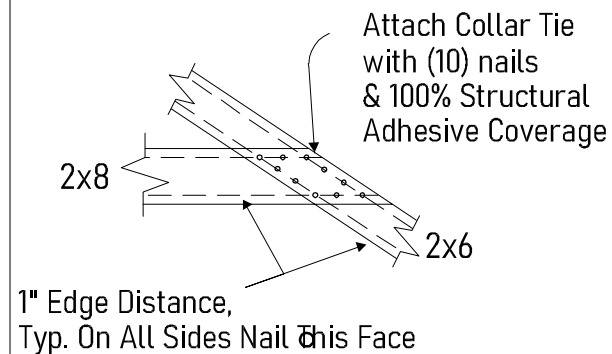


Detail (C)

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.

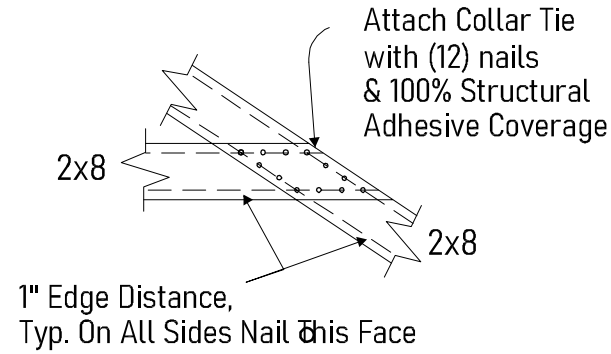


**2x8 Collar Tie
Nailed to 2x6 Chord**



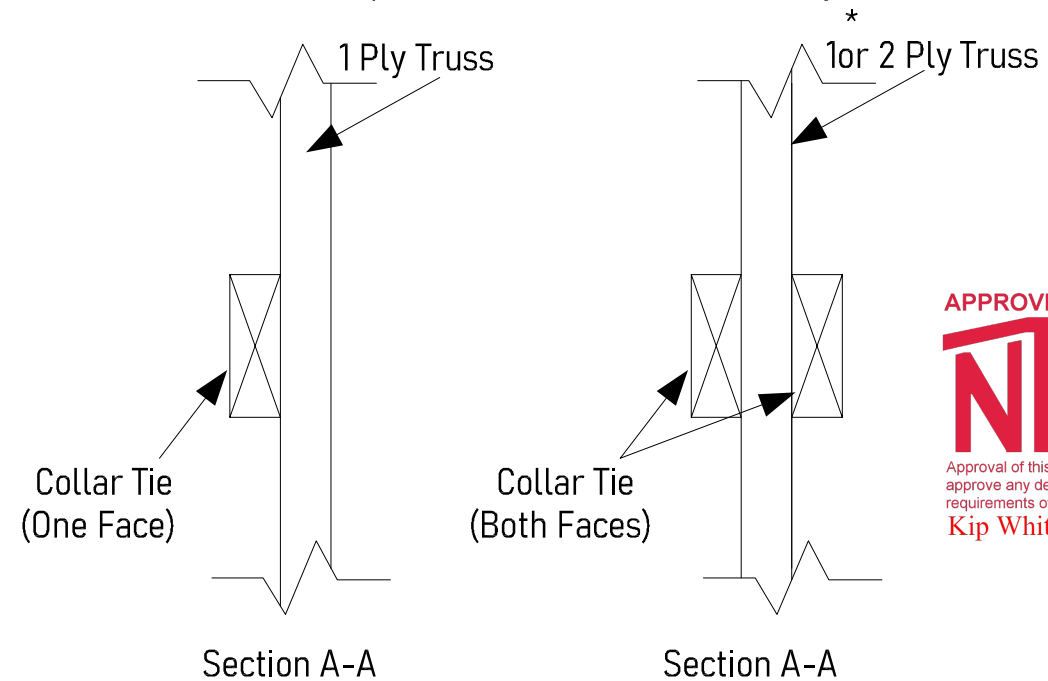
Detail (D)

**2x8 Collar Tie
Nailed to 2x8 Chord**



Detail (E)

Acceptable Alternate Applications
See truss print for which detail is actually used



* FOR 1 PLY, OFFSET NAILS WITH RESPECT TO EACH FACE.



**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)

WARNING - Verify design parameters and READ NOTES

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

Universal Forest Products, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49505



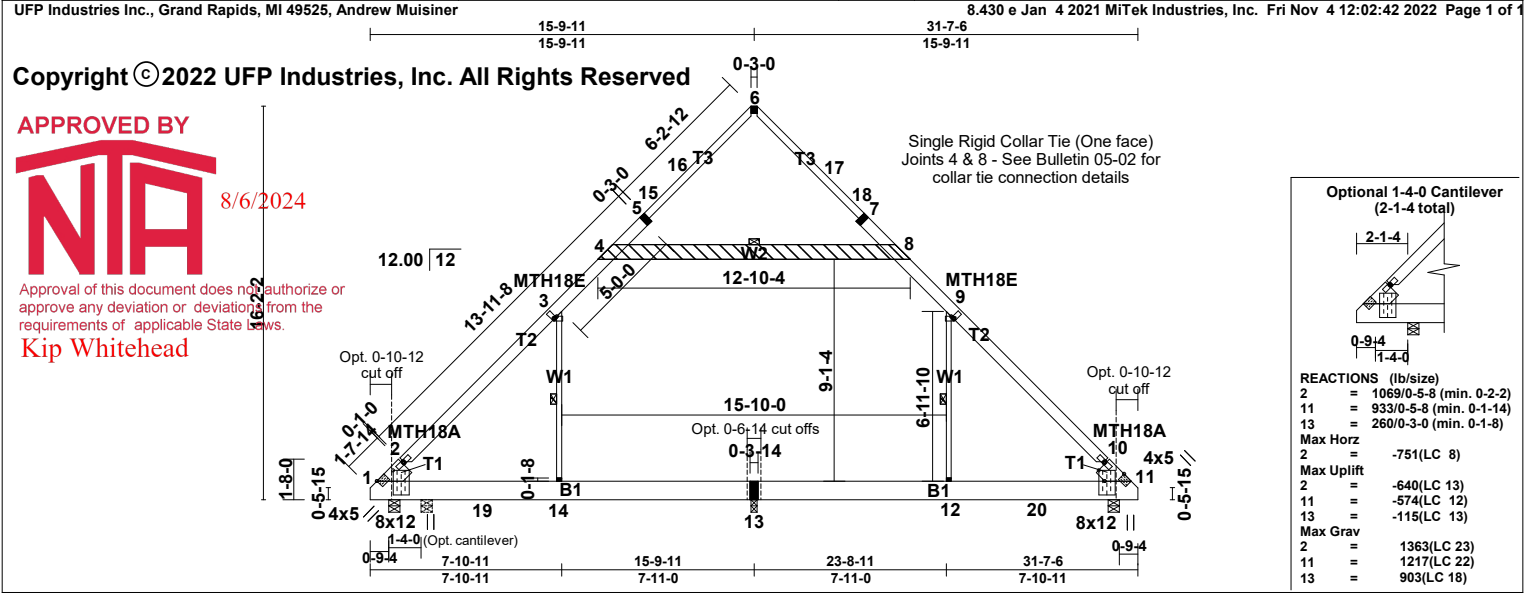


Plate Offsets (X,Y)-- [1:0-5-0,0-8-1], [2:0-5-0,0-0], [3:0-1-4,0-1-0], [9:0-1-4,0-1-0], [10:0-0-5,0-0-0], [11:0-4-4,Edge], [11:0-5-0,0-2-15]

SPACING:- 2-0-0 LOADING (psf) TCLL 17.8 (Ground Snow=30.0) TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING:- 1-4-0 LOADING (psf) TCLL 26.7 (Ground Snow=45.0) TCDL 10.5 BCLL 0.0 * BCDL 15.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr .YES Code IBC2021/TP12014	CSI. TC 0.76 BC 0.53 WB 0.75 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) 0.36 13-14 >495 240 Vert(CT) -0.37 13-14 >484 180 Horz(CT) 0.01 11 n/a n/a Attic -0.19 13-14 1013 360	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 216 lb FT = 0%
--	---	--	---	--	--

LUMBER-
 TOP CHORD 2x10 SP No.2 or 2x10 SPF No.2 *Except*
 T2: 2x6 SP No.2 or 2x6 SPF No.2, T3: 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x3 SP No.2 or 2x3 SPF Stud *Except* W2: 2x8 SP No.2 or 2x8 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing.
 WEBS 1 Row at midpt 9-12, 3-14, 4-8

REACTIONS. (lb/size) 1=984/0-5-8 (min. 0-1-15), 11=984/0-5-8 (min. 0-1-15), 13=255/0-3-0 (min. 0-1-8)
 Max Horz 1=-751(LC 8)
 Max Uplift1=-600(LC 13), 11=-596(LC 12), 13=-108(LC 12)
 Max Grav 1=1276(LC 23), 11=1272(LC 22), 13=903(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1485/747, 2-3=-1371/751, 3-4=-958/759, 4-5=-380/206, 5-15=-314/213, 15-16=-266/216, 6-16=-198/227, 6-17=-195/224, 17-18=-261/213, 7-18=-309/211, 7-8=-380/205, 8-9=-953/754, 9-10=-1363/744, 10-11=-1479/741
 BOT CHORD 1-19=-333/1041, 14-19=-333/1041, 13-14=-330/1041, 12-13=-330/1041, 12-20=-330/1036, 11-20=-330/1036
 WEBS 9-12=-279/564, 3-14=-283/567, 4-8=-867/777

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 4=867/777/142/9701, 5=334/211/229/0, 6=159/229/230/0, 7=333/208/230/0, 8=867/777/142/9679, 12=279/564/0/0, 13=330/1041/527/0, 14=283/567/0/0

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph @24in o.c.; TC DL=2.8psf; BCDL=4.0psf; (Alt. 180mph @16in o.c.; TC DL=4.2psf; BCDL=6.0psf); h=36ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-12 to 4-1-11, Interior(1) 4-1-11 to 12-7-0, Exterior(2R) 12-7-0 to 18-10-14, Interior(1) 18-10-14 to 27-5-11, Exterior(2E) 27-5-11 to 30-7-10 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=17.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.77; 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 600 lb uplift at joint 1, 596 lb uplift at joint 11 and 108 lb uplift at joint 13.
 - 14) Attic room checked for L/360 deflection.
 - 15) 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 sei
 - 16) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.
 - 17) This truss is designed in accordance with the 2021 IBC Sec 2306.1 and referenced standard ANSI/TP1 1
 - 18) This truss is designed in accordance with the 2018 IBC Sec 2306.1 and referenced standard ANSI/TP1 1
 - 19) This truss is designed in accordance with the 2015 IBC Sec 2306.1 and referenced standard ANSI/TP1 1
 - 20) This truss is designed in accordance with the 2012 IBC Sec 2306.1 and referenced standard ANSI/TP1 1
 - 21) Based on: CCB32852. Changes: IBC 2021.



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.

11/4/2022

WARNING - Verify design parameters and READ NOTES

UFP Industries, Inc. 2801 EAST BELTLINE RD, NE
 PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525

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 TP1. 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



UFP INDUSTRIES

Job	Truss	MFG	Customer
111603	CCB32853	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.



APPROVED BY

 8/6/2024

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