As directed by the North
Carolina Board of
Architecture and
Registered Interior
Designers, architectura
seals are not required for
and should not be
placed by NVR on —
these plans and
specifications.

James Bales 10/21/2025

As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for - and should not be placed by NVR on - these plans and specifications. These plans and specifications are prepared solely by, and for the exclusive use of, NVR, Inc. and are solely for a family residence consisting of eight or fewer attached units with grade level exits and which is not part of or physically connected with any other buildings or residential units. NVR, Inc. does not provide any third party the opportunity to customize these plans. The respective drawings contained herein shall be used only as construction assembly drawings by NVR, Inc. and its subcontractors. Any unauthorized use of these plans without the written consent of NVR, Inc. is prohibited.

GRAND CAYMAN

-COMM-LOT-UNIT	-COMM-LOT-UNIT										
RLH-VK-0029											
MM-LOT											
PLING VILLAGE - 0029											
REET ADDRESS		APT. NO.									
SAINTSBURY DRIVE											
·Y	STATE	ZIP									
JQUAY VARINA	NC	27526									

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2	CA-1	ROOF VENT AND VOLUME CALCULATIONS						
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	ET-1C	EXTERIOR TRIM DETAILS						
	ET-1D	EXTERIOR TRIM DETAILS						
	ET-1G	EXTERIOR TRIM DETAILS						
	ET-1H	EXTERIOR TRIM DETAILS						
	ET-3	EXTERIOR TRIM DETAILS						
	ET-3B	EXTERIOR TRIM DETAILS						
	ET-3C	EXTERIOR TRIM DETAILS						
	F-1	FLASHING DETAILS						
	F-1B	FLASHING DETAILS						
	F-1D	FLASHING DETAILS						
	F-3	FLASHING DETAILS STONE						
	F-3B	FLASHING DETAILS STONE FLASHING DETAILS STONE						
	FA-1B	FIRE ASSEMBLY DETAILS						
	FC-1	FRAMING/FASTENER DETAILS						
	FC-1B	FRAMING/FASTENER DETAILS						
	FC-2	FRAMING/FASTENER DETAILS						
	FC-4	FRAMING/FASTENER DETAILS						
	FC-5	FRAMING/FASTENER DETAILS					-	
	FD-1	FOUNDATION DETAILS						
	FD-1B	FOUNDATION DETAILS						
	FD-4	FOUNDATION DETAILS						
	IT-1	INTERIOR TRIM DETAILS						
	IT-1B	INTERIOR TRIM DETAILS						
	IT-1C	INTERIOR TRIM DETAILS						
	IT-2	INTERIOR TRIM DETAILS						
	IT-2B	INTERIOR TRIM DETAILS						
	KT-1	KITCHEN TRIM DETAILS						
	KT-1B	KITCHEN TRIM DETAILS						
	RF-1	ROOF FRAMING DETAILS						
	RF-1B	ROOF FRAMING DETAILS						
	RF-1C	ROOF FRAMING DETAILS						
	SEP-1	STANDARD ENERGY PACKAGE DETAILS						
	SEP-2	STANDARD ENERGY PACKAGE DETAILS						
	SEP-3	STANDARD ENERGY PACKAGE DETAILS						
	SEP-4	STANDARD ENERGY PACKAGE DETAILS						
	WB-1	WALL BRACING DETAILS						
	WB-2	WALL BRACING DETAILS						
	WD-1	WINDOW DETAILS						
	WD-3	WINDOW DETAILS						

STRUCTURAL DESIGN CRITERIA

- ALL LOCAL AND STATE CODES

 ROOF LIVE LOAD

 ULTIMATE WIND SPEED

 WIND EXPOSURE CATEGORY

 SEISMIC DESIGN CATEGORY

 A / B



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specifications.

NVR, Inc. 5285 Westview Drive, Suite 100 Frederick, MD 21703

FIRST FLOOR SQUARE FOR DESCRIPTION	TOTAL SQ. FT.
ST FLOOR SLAB FOUNDATION (BASE SF)	101AL 5Q. FT.
191 FLOOR SLAB FOUNDATION (BASE SF)	1533 SF
	1333 31
GARAGE SQUARE FOO	TAGE
DESCRIPTION	TOTAL SQ. FT.
TWO CAR GARAGE SLAB FOUNDATION	443 SF
	443 SF
UNFINISHED SQUARE FOO	OTAGE TOTAL SQ. FT.
REAR COVERED PORCH (ADD. SF)	140 SF
FRONT COVERED PORCH (ADD. SF)	25 SF
	165 SF
TOTAL FINISHED SQUARE !	=00TAGE
DESCRIPTION	TOTAL SQ. FT.
DESCRIPTION	TOTAL SQ. FT.
DESCRIPTION ST FLOOR SLAB FOUNDATION (BASE SF)	TOTAL SQ. FT.
DESCRIPTION	TOTAL SQ. FT.

RELEASE NO. ----

GENERAL

- These plans and specifications are designed for the exclusive use by NVR, Inc. for the purpose of residential construction. As such, these products are offered for sale in NVR, Inc. communities only. NVR, Inc. is a production homebuilder and does not provide the opportunity to customize these plans. The respective drawings contained here in shall only be used as construction assembly drawings by NVR, Inc. and their sub-contractors. Any unauthorized use of these plans without the written consent of NVR, Inc. is prohibited. All standard notes, section markers, elevation markers and title markers that reference "A-#" shall be considered "NC-#" for
- 2. These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design
- 3. These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all scale references.
- 4. Single Family Attached/Detached Automatic residential fire sprinkler systems shall
- be installed in accordance with NCRBC P2904 or NFPA I3D where required. 5. This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes or engineering design in accordance with

CODE ANALYSIS

- . This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes including, but not limited to:
 - NCRC 2018, NCMC 2018, NCPC 2018, NCFGC 2018, NEC 2020 w/ NC Amendments, NCEC 2018, NCFPC 2018
- 2. Constr. Type: V-B
- 3. Max Stories: 3

Section 301.1.3.

ENERGY AND MECHANICAL

I. Insulation requirements per 2018 NCRC Chapter II, Energy Efficiency, or Chapter 4 of the 2018 North Carolina Energy Conservation Code (NCECC), or Chapter 4 of the 2015 International Energy Conversation Code (IECC), Residential Energy Efficiency by the prescriptive method. See NVR "Standard Energy Package" for field procedures and details.

R-values shown below are the minimum used.

CLIMATE ZONE	FENESTRATION U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	FRAME WALL R-VALUE 2x4 / 2x6	FLOOR R-VALUE	BASEMENT WALL R-VALUE UNFIN. / FIN.	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
æ	0.35	0.30	38	15 / 19	19	5 / 15	NA	5 / 15
4	0.35	0.30	38	15 / 19	19	10 / 15	10	10 / 15

- 2. All HVAC equipment is sized based on ACCA Manual J calculations. Ductwork is sized using ACCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.
 - Air conditioner 14 SEER
 - Gas furnace 92% / 96% - Heat Pump - 8.2 HSPF
- 3. Winter interior design temperatures shall be 70°F and summer interior design temperatures shall be 75°F. Exterior design temperatures vary based on geographic location and are listed on the Manual J calculations.
- 4. Roof ventilation calculations are based on the following specifications:

Ridge vent:	Minimum	18 sq. in. of vent per linear foot
Ridge vent: Soffit vent:	Minimum	9.9 sq. in. of vent per linear foot
Roof jack (box vent):	Minimum	45 sq. in. of vent per unit

5. See NVR "Standard Energy Package" for field procedures and details.

DESIGN LOADS

<u>Table of Loads for House Structure. Per Table 301.5</u>

Floor Living Areas	- 40# P.S.F. (Live)
-	- 10# P.S.F. (Dead) unless noted otherwise by calculations
Floor Sleeping Areas	- 30# P.S.F. (Live) unless noted otherwise by calculations
	- 10# P.S.F. (Dead) unless noted otherwise by calculations
Garage Floors	- 50# P.S.F. (Live)
-	- 50# P.S.F. (Dead)
Roof Areas – Top Chord	- 20# P.S.F. (Live)
'	- IO# P.S.F. (Dead)
- Bottom Chord	- 10# P.S.F. (Live) (Attics without storage)
	- 20# P.S.F. (Live) (Attics with limited storage
	- IO# P.S.F. (Dead)
Habitable Attics	- 30# P.S.F. (Live)
Trusses	- Areas up to 130 mph ultimate wind speed pe
	Table R301.2(4)
	- Exposure category 'B'
Malls	- Areas up to 130 mph ultimate wind speed pe
	Table R301.2(4)
	Vult 115 mph 130 mph
	Vasa 89 mph 101 mph
	Note: Linear interpolation between
	contour lines permitted.
Stairs	- 40# P.S.F. (Live)

<u>Design Criteria</u>

Design Codes

Allowable deflection of structural members per IRC Table R301.7

I. <u>National Design specification for Wood Construction</u> by National Forest

- 10# P.S.F. (Dead)

2. Specification for the Design Fabrication and Erection of Structural Steel for <u>Buildings</u> by American Institute of Steel Construction.

Materials Headers* Southern Pine (KD-19), No. 1 Grade Spruce-Pine-Fir, Stud Grade Jacks Spruce-Pine-Fir, Stud Grade Beams** Southern Pine (KD-19), No. 1 Grade

2x10 Hem-Fir (KD-19), No. 2 Grade or better (WCLIB & WWPA) 2x8 Southern Pine (KD-19), No. 1 Grade or better

2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NLGA)

* Where required, Laminated Veneer Lumber may be used per Engineering ** Structural Steel - A.S.T.M. A36

FOUNDATIONS

- I. All plain and reinforced concrete shall comply with requirements in ACI 318.
- 2. Concrete footings shall be poured a maximum 5" slump, 5 bag mix, and 2,500 psi minimum strength per Table R402.2. Concrete walls shall be poured a maximum 5" slump, 5 1/2-bag mix, and 3,000 psi minimum strength per Foundation Wall Design table below. Special soil and or wall height conditions may require a higher psi mix.
- 3. Walls and footings designed as unreinforced unless otherwise specified on foundation plans or details. Special soil and/or site conditions may require the addition of reinforcing.
- 4. Footing frost depth to be no less than 12" per R403.1.4 and Table R301.2(1).
- 5. Minimum Soil Bearing Capacity shall be 2,000 PSF per Table R401.4.1.
- 6. Slab requirements:

Interior slabs on grade (excluding garage slabs) to be minimum 3-1/2" concrete (may be represented on plans as nominal 4") over 4" sub-base, with vapor barrier (6-mil polyethylene) as required per Section 506 and a minimum 2,500 PSI per Table R402.2.

Non-structural garage slabs shall be nominal 3-1/2" thick and shall be installed on compacted / undisturbed soil per Table R402.2. Slabs shall be 3,500 PSI air-entrained concrete. Structural garage slabs utilizing grade beams shall be nominal 4" thick. Slabs shall be 3,500

- PSI air-entrained concrete. Porch slab and exterior concrete work shall be nominal 4" minimum 3,500 PSI air-entrained concrete with 6x6 WI.4xWI.4 mesh or equivalent fiber mesh reinforcement.
- 7. Unconditioned crawl spaces shall have a minimum net area of ventilation not less than I square foot for each 150 square feet of area, unless the ground surface is covered by a Class I vapor retarder, in which case the minimum net area of ventilation shall not be less than I square foot for each 1,500 square feet of area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building, per R408.1.2.
- 8. Foundation drains shall be located per local codes and according to local site conditions. Drain discharge by gravity or mechanical means to conform with approved site plan and installed per Section R405.1.
- 9. The top course of block of foundation walls shall be semi-solid block or open cores of hollow block shall be filled with mortar.
- 10. Block piers to be solid block or mortar-filled hollow block.
- II. A poured concrete foundation wall designed to withstand an equivalent fluid weight of 30# per cubic ft. may be substituted where masonry units (block) are shown on plans.
- 12. Concrete and masonry foundation walls shall be dampproofed with min. 3/8" portland cement paraina from footing to top of finished grade. The paraing shall be covered with a coat of approved bituminous material applied at the recommended rate per R406.1.
- 13. Where required, concrete and masonry foundation walls shall be waterproofed with an approved membrane extending from footing to top of finished grade. The joints in the membrane shall be lapped and sealed with an adhesive compatible with the waterproofing membrane. Waterproofing to be in accordance with R406.2.
- 14. Reserved for future use.
- 15. Foundation framing anchors shall be 1/2"x18" anchor bolts with 7" minimum embedment or Simpson Strong-Tie MASA / USP FA3 (16 gauge steel, galvanized) or equivalent set in concrete or arouted cell, I'-O" maximum from corners and spaced at a maximum of 6' o.c. and in the middle third of the width of the plate. For walls connecting offset braced wall panels, those 24" in length or shorter shall have min. (1) anchor strap and those 12" or shorter can be installed without anchor straps. Townhouses in seismic design category "C" shall require a .229" x 3" x 3" plate washer per R403.1.6.1 and maximum anchor bolt spacing for buildings over two stories shall be 4'.
- 16. Steel columns and bases shall be given a shop coating of rust-inhibitive paint or equivalent to provide corrosion resistance per **Ŕ407.2**.
- 17. For masonry veneers:

Per R703.8.4.I - Corrugated sheet metal veneer ties shall be a minimum of No. 22 U.S. qauqe by 7/8 inch. Each tie shall be spaced not more than 32" o.c. horizontally and 24" o.c. vertically and shall support not more than 2.67 square feet of wall area. For townhouses in Seismic Design Category C and in wind areas of more than 30 pounds per square foot pressure, each tie shall support not more than 2 square feet of wall area.

Additional metal ties shall be provided around all wall openings greater than 16 inches (406 mm) in either dimension. Metal ties around the perimeter of openings shall be spaced not more than 3 feet (9144 mm) on center and placed within 12 inches (305 mm) of the wall opening.

Per R703.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall be provided behind brick. Per Table R703.8.4 - Provide minimum I-inch air space between brick veneer and sheathing.

Per R703.8.6 - Provide minimum 3/16" diameter weep holes at 33" on center maximum, located immediately above the flashing. Per R703.8.5 - When veneer of brick, clay tile, concrete, or natural or artificial stone are used, 6 mil plastic flashing shall be attached to the sheathing wherever necessary to prevent

- moisture penetration behind the veneer. See NVR Flashing Details. 18. Reserved for future use.
- 19. Foundation wall strip footing thickness to be 8" (or 6" with a single story) unless otherwise noted as specified by engineering. Strip footing projections beyond the face of the foundation wall shall not to exceed the footing thickness. Bump out footings, pier pads, and any other footing identified as being greater than 8" in thickness shall not be reduced.
- 20. Block foundation walls may be substituted for poured foundation walls shown on foundation plans provided all requirements of Section R404 are met.
- 21. Termite treatment provided below slabs or to framing members per R318.1

FOUNDATION WALL DESIGN(C) NCRBC PRESCRIPTIVE CODE OR ENGINEERED DESIGN PER ACI 332

WALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)	
		4-	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
	8"	45	7'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)	
	<i>6</i>	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)	
8'-0"		00	7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (d,e)	
0-0		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
	10"	45	7'-0"	NOT REQUIRED	2- #4 BARS (f)	
	10	60	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED	2- #4 BARS (f)	
		45	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)	
	න"		8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)	
			7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)	
9'-0"		60	8'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (d,e)	
		4E	7'-0"	NOT REQUIRED	3- #4 BARS (g)	
	10"	45	8'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)	
		60	7'-0"	7'-0" NOT REQUIRED (d)		
			8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)	

NOTE: BACKFILLING OF THE FOUNDATION SHALL NOT TAKE PLACE BEFORE THE BASEMENT SLAB IS IN PLACE AND THE FLOOR FRAMING IS ERECTED OR UNLESS WALLS ARE ADEQUATELY BRACED.

- a. SOIL CLASSES GM, GC, SM, SM-SC AND ML 45 PSF
- SOIL CLASSES SC, MH, ML-CL AND CL 60 PSF
- b. SPACING SHOWN IS BASED UPON Fy = 60,000 PSI
- STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACING BY 0.67
- c. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI d. ENGINEERED DESIGN PER ACI 332-14, REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION
- e. FOR ALL WALL HEIGHTS, ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24", ONE IN THE BOTTOM 24" WITH THE REMAINING BARS EQUALLY SPACED. MAINTAIN 2" OF CONCRETE COVER BETWEEN INSIDE FACE OF WALL AND FACE OF HORIZONTAL BARS
- f. ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404.I.2(1).
- q. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

PLANS

- I. Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. openable area (5.0 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hqt. 24", min. width 20") per R310.1.
- 2. All emergency escape and rescue openings shall have a minimum net clear openable area of 4 sa ft. The minimum net clear opening height shall be 22" and a minimum net clear opening width of 20". Emergency escape and rescue openings must have a minimum total glazing area of not less than 5 sq ft in the case of a ground window and not less than 5.7 sq.ft in the case of an upper story window per R310.2.1. Window wells where required, shall be installed per R310.2.3 with a minimum of 9 sq ft and a minimum horizontal projection and width of 36". Wells with a greater depth of 44" shall have permanently affixed ladder or steps per R310.2.3.1.
- 3. Clear opening heights for exterior doors to be 6'-6" minimum per R311.2. All interior doors providing earess from habitable rooms shall have nominal minimum dimensions of 2'-6" by 6'-8" per R311.6.1. Habitable rooms with double doors less than 5'-O" in total width (less than 2'-6" per door slab) shall have a total opening width of at least 2'-6" with no slide bolts or locking devices installed on either door.
- 4. Sliding glass drs/patio drs/wdws must be safety glazed per R308.4.

side. Insect screening shall not be considered as a quard.

- 5. Interior stairway shall have minimum head room of 6'-8" per 311.7.2 and minimum tread depth of 9" and maximum riser height of 8 1/4". Handrails are required for stairs with four or more risers and shall have minimum height of 34" and maximum height of 38" above treads and landings. Handrail to have maximum 4 1/2" projection into width of stair per Section R311.7. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 1/2" gypsum board per
- 6. Guard rails to have minimum height of 36" and shall not have openings from the walking surface to the required quard height which allow passage of a sphere 4 inches in diameter per R312.
- 7. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a quard,
- shall not allow passage of a sphere 6 inches (153 mm) in diameter per R312.1.3. 8. Where exterior landings or floors serving the required egress door are not at grade, they shall be provided with access to grade by means of a a stairway in accordance with Section R311.7 (see item #5
- above) or a ramp in accordance with Section R311.8. 9. Handrails shall be installed on exterior stairs having (4) or more risers per R311.7.8. Guards shall be installed at exterior porches / decks that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open
- 10. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per R703.4. See NVR Flashing Details.
- II. Wood framed bearing walls shall 2×6 at 24" o.c. maximum or 2×4 at 16" o.c. maximum per **Table** R602.3(3) and Table R602.3(5) unless otherwise noted on plans
- 12. All exterior sheathing to be structural sheathing designed in accordance with R602.10.
- 13. An approved water-resistive barrier shall be applied over sheathing of exterior walls per Section
- 14. Interior sheathing shall be 1/2" gypsum wall board unless otherwise noted. Exceptions may include, but are not limited to, special requirements for wall bracing and fire separation.
- 15. Screw fastening is typical for gypsum installation and nailing will only be permitted at the perimeter of the board. • All screws shall be corrosion-resistant Type W 1-1/4" drywall screws.

SCREW FASTENING SCHEDULE											
WITH ADHESIVE											
Framing Spacing Ceilings Load-brg. walls Non-load-brg. walls											
16 16 24 24											
16	16	24									
MIT	HOUT ADHESIVE										
Ceilings	Load-brq. walls	Non-load-brq. walls									
Framing Spacing Ceilings Load-brg. walls Non-load-brg. walls 16 16 16 16 12 12 12 12											

- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .098 diameter shanks with annular ring or acceptable
- equivalent and comply with ASTM C514. • For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .098 diameter shanks.
- 17. Garages shall be completely separated from the residence and attic area by not less than 1/2" gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms abové by not less than 5/8" type X gyp. board. Where a structure is supporting a floor-ceiling assembly due to living space above the garage, the structure shall also be protected by not less than 1/2" aupsum board per Section R302.6.. Opéninas and penetrations through the separation shall be protected by sealing the area around the penetration per Section R302.5. The garage door shall be a 20-minute fire-rated door and be equipped with a self-closing device installed per Section R302.5.I.
- layers of underlayment, a self-adhering polymer-modified bitumen underlayment shall be used per section R905.I.I Exception #1.

18. Asphalt shingles shall be installed per section R905.2. For roof slopes of 2:12 through 4:12, in lieu of two

- 19. Attic spaces shall be ventilated w/ridge and soffit vents unless otherwise noted. Venting provided per
- 20. Fireblocking shall be installed between ceiling and floor openings per R302.II. Draftstopping to be installed in accordance with R302.12.
- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to center- between adjacent fixtures. There shall be a clearance of not less than 21 inches in front of the water closet, lavatory or bidet to any wall, fixture or
- 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International Mechanical Code.
- 23. Mechanical fireplaces shall be installed per Section RIOO4 and IOO5.
- 24. Single family attached structures to have 2-hour dwelling unit separation wall continuous to roof deck. Roofing material to be minimum class "C" over approved fire retardant wood decking extending 4' each
- side of dwelling unit separation wall per R302.2 and R302.3. 25. Untreated wood shall be minimum 8" above finish grade per R317.1 Item #2.

26. Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material

- 27. Exterior egress swing doors shall open onto a landing not more than 8 1/4" below the top of the threshold when door swings in and 1 1/2" below the top of the threshold when the door swings out. The landing shall extend a minimum of 36" in the direction of travel and be at least the width of the doorway served per
- 28. Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant screen, louvers, or grills having a min. opening size of 1/4" and maximum of 1/2" in any dimension per
- 29. Fasteners and connectors for pressure preservative-treated wood shall be hot-dipped galvanized steel. 30. Windows that have an operable opening more than 72" above finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24" above the finished floor of the room in
- which the window is located. Glazing between the floor and 24" shall be fixed or have openings through which a 4" dia. sphere cannot pass per Section R312.2. 31. The final grade shall fall a minimum of 6 inches within the first 10 feet of the foundation per R401.3.
- 32. One- and two-family dwelling construction (R302.1.1): Vinul or aluminum soffit material shall be securely attached to framing members and use an underlayment material of either fire retardant treated wood, 3/4-inch wood sheathing or 5/8-inch gypsum board. Venting requirements shall apply to both soffit and underlayment and shall be per Section R806. Where the property line is 10 feet or more from the building face, the provisions of this code section shall not

Projections extending into the fire-separation distance shall have not less than I-hour fire-resistive

- construction on the underside. Vinyl or aluminum soffit material shall be securely attached to framing members and use an underlayment material of either fire retardant treated wood, 3/4-inch wood sheathing or 5/8-inch aupsum board. Véntina requirements shall apply to both soffit and underlayment. Vents shall be nominal 2-inch continuous or equivalent intermittent and shall not exceed the minimum net free air requirements of Section R806.2 by more than 50%. Vents in soffit are not allowed within 4 feet of fire
- walls or property lines per R302.2.5 and R302.2.6. 33. I-hour fire-rated construction required on projections within 2' to 3' of lot line per R302.I. No projections allowed within 2' of property line.
- I-hour fire-rated construction required on townhouse eaves within 3' of the property line.

Townhouse construction (R302.2.5):

Design Category C.

- Note: Single Family Detached product will NOT be built within 3' of the property line. 34. Wall bracing is designed in compliance with Section R602.10. When wall bracing is beyond the criteria for a prescriptive approach, the structure is analyzed utilizing engineering in compliance with the North Carolina Building Code (NCBC). Refer to house-specific wall bracing detail sheets and wall bracing standard details. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic
- 35. Minimum floor sheathing shall be 5/8" tongue \$ groove decking underlayment grade plugged and sanded, exterior qlue, qlued and nailed on joists to meet. "American Plywood Association" approved glued floor system, unless otherwise specified.

ELECTRICAL

- I. Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Code). 2. Electric panel box installation to be in accordance with NFPA 70, Article 408 Section III. Location may
- 3. Approved smoke detectors shall be installed in each sleeping room; outside each separate sleeping area in the immediate vicinity of the bedrooms; and on each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. Where more than one smoke detector is required, the devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. All smoke detectors shall receive their primary power from the building wiring and be equipped with a battery backup.
- 4. Unless listed for installation in such locations, smoke detectors shall be installed at least 10 feet from a cooking appliance, at least 3 feet from the door to a bathroom containing a tub or shower, at least 3 feet from forced air supply registers, and at least 3 feet from the tip of a ceiling fan blade. In sleeping rooms, smoke detectors should be located in the vicinity of the room entrance. They shall be installed at the highest portion of the ceiling (including tray or coffered ceilings) or within 12 inches vertically from the highest point in rooms with sloped ceilings.
- 5. Interior stairs shall be provided with an artificial light source in the vicinity of each landing or directly over each stair section and capable of illuminating treads and landings to a level not less than Ifc measured at the center of the tread or landing per R303.7.
- 6. Outlets within 6' of a sink must be GFI protected.
- 7. An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom. R315.3.
- 8. Outlets installed in laundry areas must be GFI protected.

specifications.

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NVR - Business Use Only

NVR

Version 4.0 (Last Revised 04/26/19)

ROOF VENTILATION CALCULATIONS

HOUSE NAME HOUSE VERSION PRODUCT LINE

VENTILATION VALUES

CDAND CAMANI											
GRAND CAYMAN											
1											
RY	/ANHOMES										
SOFFIT:	9.9 sq in of vent per If										
RIDGE:	18 sq in of vent per If										
BOX / GABLE VENT:	45 sq in of vent per unit										

	YES	(any)	(any)	VENT OK	No action req'd.
	NO	YES	OK VENT OK		No action req'd.
USER GUIDE	NO	YES	LOW	FAIL	Increase ridge
	NO	YES	HIGH	FAIL	Decrease ridge
	NO	NO	(any)	FAIL	Increase total vent

	ELEVATION "J"														
Required: Required: Upper Box / Lower Box											·	A/300	A/300		
	Area (A)	A/150	A/300	Soffit	Soffit Vent	Ridge	Ridge Vent	Gable Vent	Vent	TOTAL	OK A/150	OK A/300	% vent at	40%-50%	
Location / Options	(sq in)	(sq in)	(sq in)	(If)	(sq in)	(If)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK?	Notes
Without Rear Porch	287999	1919.99	960.00	90.125	892.24	22	396.00			1288.24	NO	YES	41.25%	OK	
With Rear Porch	308159	2054.39	1027.20	92.375	914.51	23	414.00			1328.51	NO	YES	40.30%	OK	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/01	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	

	ELEVATION "K" or "L"														
		Required:	Required:					Upper Box /	Lower Box				A/300	A/300	
	Area (A)	A/150	A/300	Soffit	Soffit Vent	Ridge	Ridge Vent			TOTAL	OK A/150	OK A/300	% vent at	40%-50%	
Location / Options	(sq in)	(sq in)	(sq in)	(If)	(sq in)	(If)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK?	Notes
Without Rear Porch	287999			90.125		22				1288.24			***************************************		
With Rear Porch	308159	2054.39		92.375		23				1328.51		YES	40.30%	OK	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00		NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00		NO	#DIV/0!	#DIV/01	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	

							Re	ar Porch							
		Required:	Required:					Upper Box /	Lower Box				A/300	A/300	
	Area (A)	A/150	A/300	Soffit	Soffit Vent	Ridge	Ridge Vent	Gable Vent	Vent	TOTAL	OK A/150	OK A/300	% vent at	40%-50%	
Location / Options	(sq in)	(sq in)	(sq in)	(If)	(sq in)	(If)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK?	Notes
	20160	134.40	67.20	18	178.20		0.00			178.20	YES	N/A	N/A	N/A	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	

					ΑC	DITION	AL AREA	S OF RO	OF VENT	ILATION					
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit	Soffit Vent	Ridge (If)	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)		TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	Notes
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/01	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/01	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	
		0.00	0.00		0.00		0.00			0.00	NO	NO	#DIV/0!	#DIV/0!	

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Version 2.0 (Last Revised 04/26/19)

HOUSE VOLUME CA	ALCULATIONS
HOUSE NAME	GRAND CAYMAN
HOUSE VERSION	GCM00 / 01
PRODUCT LINE	RYANHOMES

Note: The volume of the structure has been computed in acordance with "Title 5. of the Community Affairs, Chapter 23. Uniform Construction Code, Subchapter 2. Administration and enforcement: Process." (5;23-2.28. Volume computation)

ELEVATION "J", "K", "L"					
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)		
Main section of the house	1680.00	13.30	22348		
Garage bump out from main house	320.00	11.40	3647		
		Total House Volume	25994		

Additional areas of vo	lume to be added to	total house volum	e as needed
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Covered Porch "EPE"	140.00	9.44	1321
Full Basement "FBA"	1584.67	8.63	13668
Crawl space "FCA"	1584.67	0.80	1268

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KIPLING VILLAGE - 0029

STREET ADDRESS

77 SAINTSBURY DRIVE

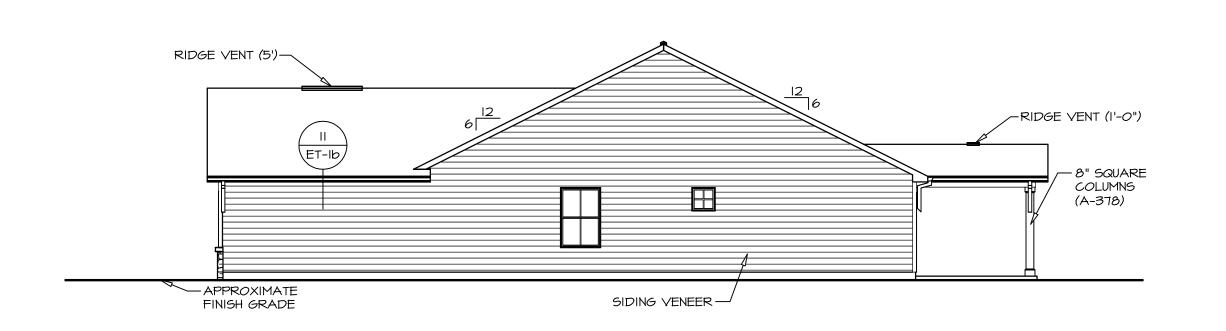
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FUQUAY VARINA

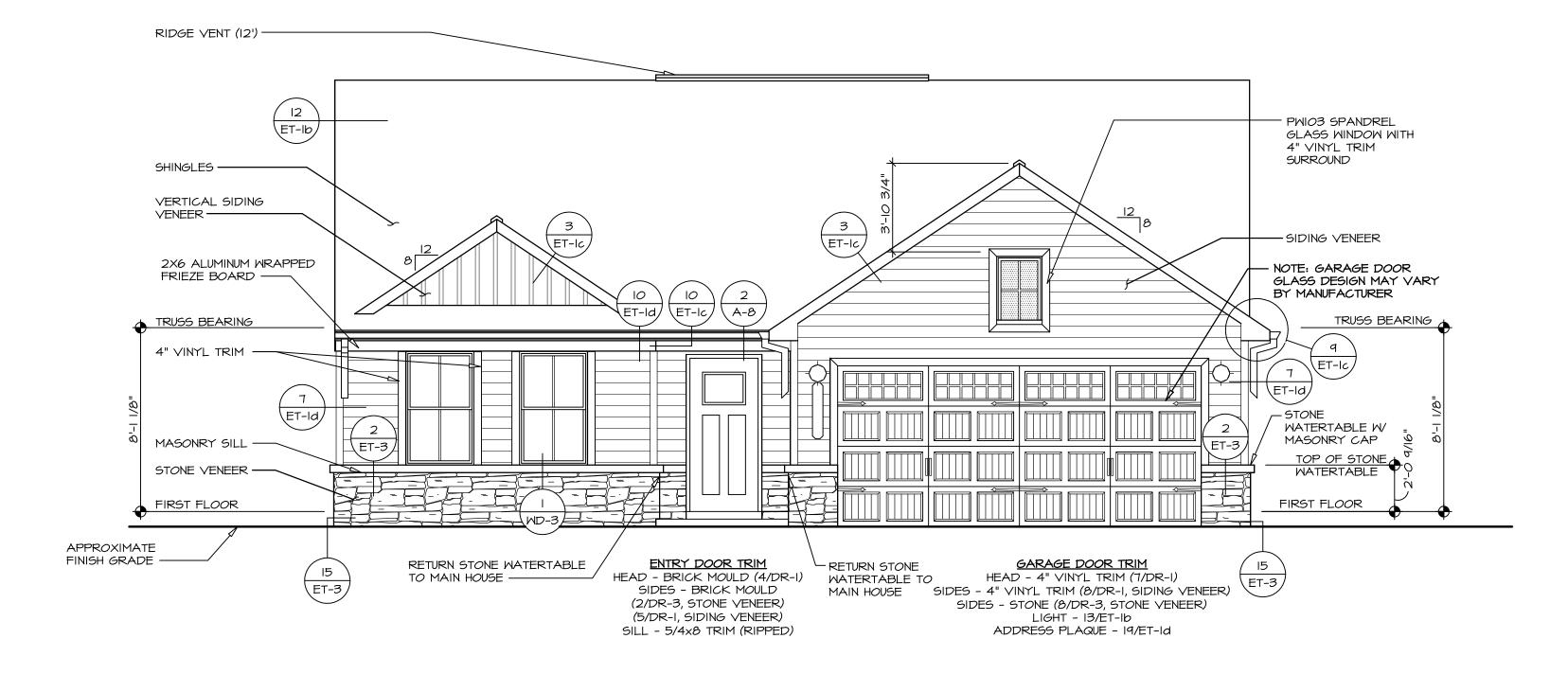
NC 27526

5285	NVR, Inc. 35 Westview Drive, Suite 100 Frederick, MD 21703
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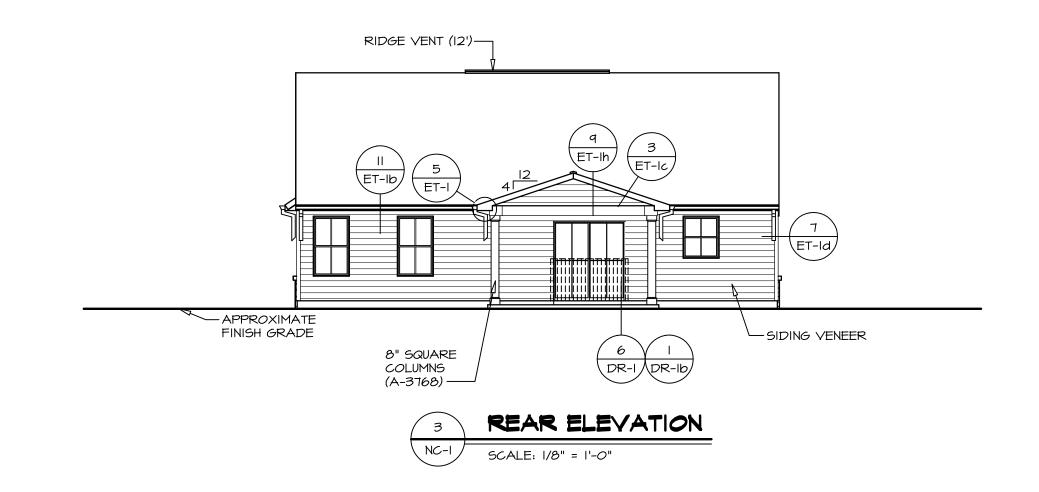
AND CAYMAN	SET NO. GCMOO VERSION OI
4G TITLE	RELEASE NO
= VENT AND VOLUME CALCULATIONS	DRAWN BY
UME CALCULATIONS	DATE:
I DESCRIPTION	OPTION

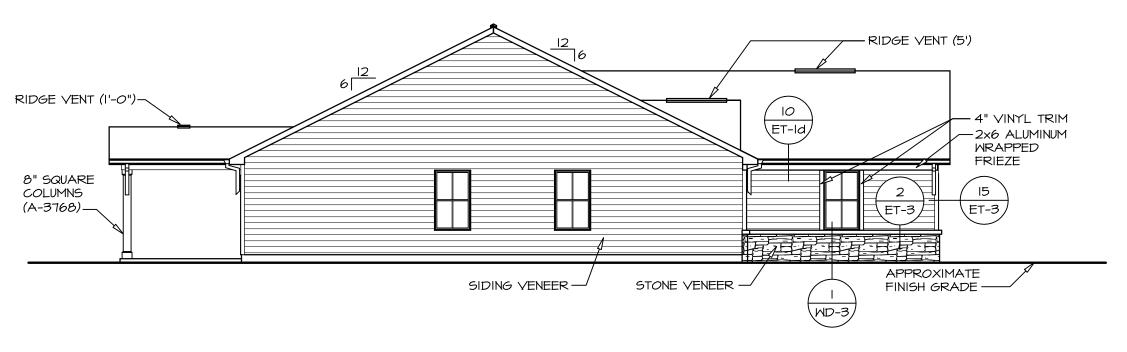


2 RIGHT ELEVATION NC-I SCALE: I/8" = I'-0"











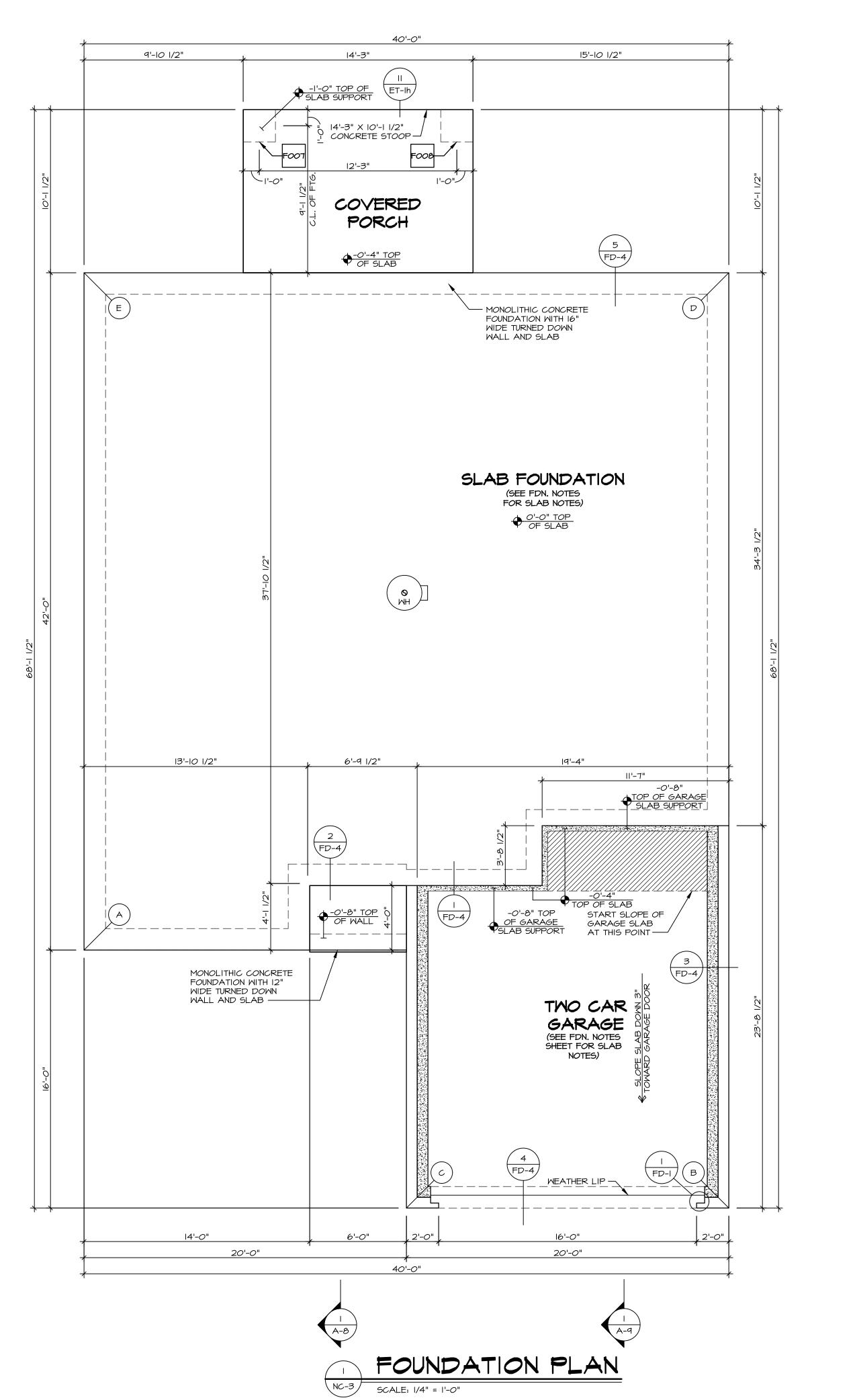
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GRAND

DRAWING TITLE

ELEVATIONS

As directed by the North



FOUNDATION NOTES - SLAB

- I. SEE STANDARD DETAIL CATEGORY "FD" SHEET(S).
 I.I. CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
 2. FOUNDATION UNDER GARAGE:
- 2.I. UNEXCAVATED WITH CONCRETE SLAB OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) OR 2.2. STRUCTURAL CONCRETE SLAB OVER SUB-BASE (SEE
- SPEC SHEET FOR SLAB NOTES) 3. SEE FOUNDATION HOLD DOWN SHEET FOR CONNECTION
- INFORMATION.

 4. SLAB LEDGE LOCATIONS VARY W GRADE BEAM(S)
 ORIENTATION. SEE GB-I FOR DETAILS.

 5. THE DIRECTION OF THE ARROW IS THE DIRECTION OF
- REBAR, AS REQUIRED.
- 6. ALL FOOTINGS ARE PLAIN, NON-REINFORCED CONCRETE UNLESS NOTES OTHERWISE.
- 7. SEE WS- DETAILS FOR FOOTER SLEEVE INFORMATION.
 8. THICKEND SLAB DEPTHS MEASURE FROM TOP OF SLAB.
 PAD FOOTING DEPTHS MEASURE 4" BELOW TOP OF

LEGE	ND
	BEARING WALL
	NON BEARING WALL
	MASONRY WALL
\otimes	INDICATES BEARING FROM POINT-LOAD ABOVE
1_	JACKS
B_	BEAM/HEADER
T/F	FOOTING/THICKENED SLAB
(c_)	STEEL COLUMN
×	TRUSS TIE DOWN
X	PORTAL FRAME
X	JOIST/TRUSS
L	LVL
X	ENGINEERING PAGE NUMBER
×	WINDOW/DOOR TAG
×	PRECAST LINTEL TAG

-SEE FA DETAILS FOR FIRE

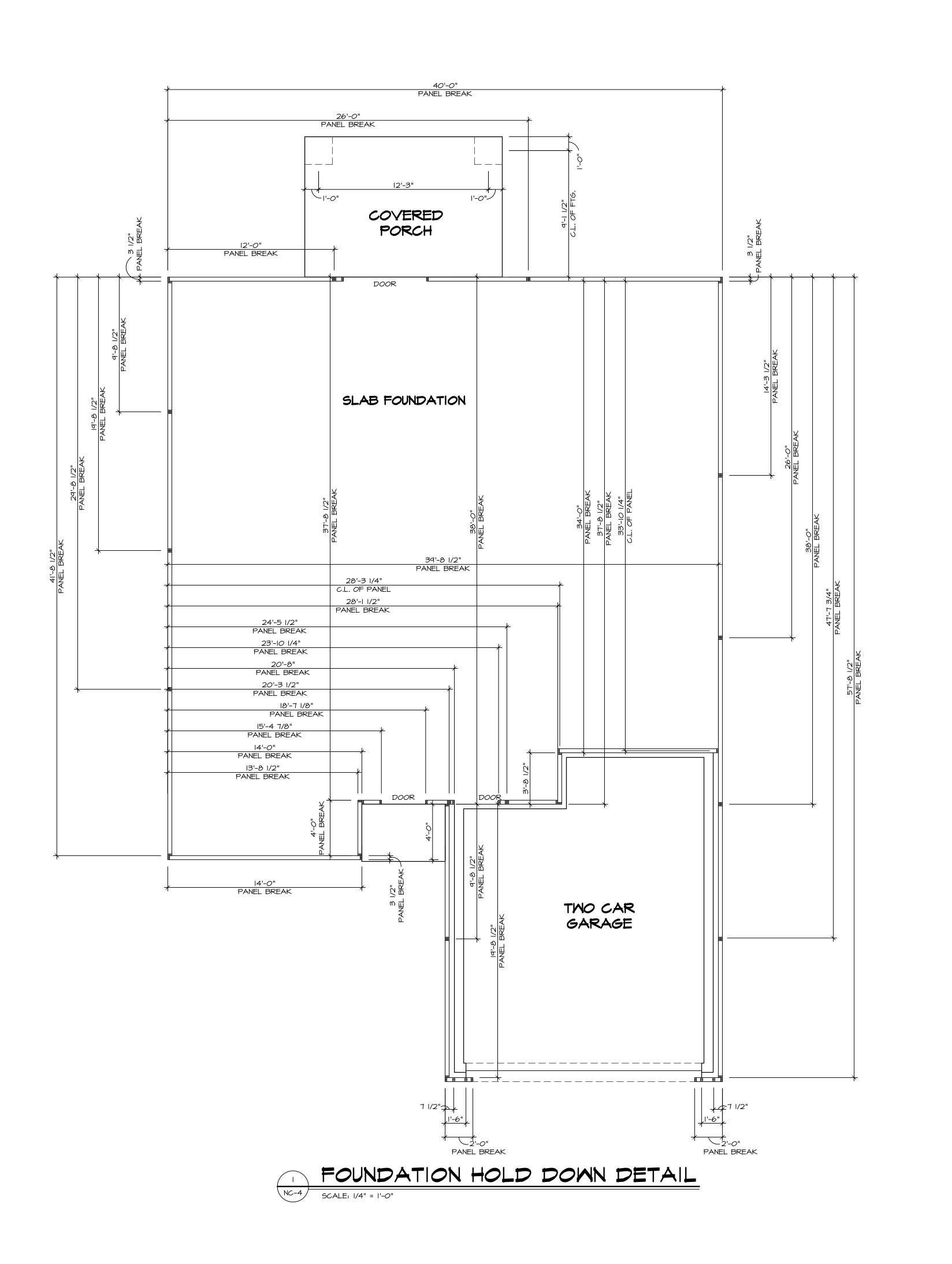
ASSEMBLIES
-SEE FC DETAILS FOR FRAMING
CONNECTORS AND MATERIAL USAGE

PAD FOOTING SCHEDULE							
IDENTIFIER	LENGTH	MIDTH	HEIGHT	ENG. NUM.	REMARKS		
F007	2'-0"	2'-0"	I'-O"	50001			
F008	2'-0"	2'-0"	1'-0"	50001			

FOUNDATION DIAGONALS						
	A		а			
4	0"	Α	43'-1"			
3	43'-1"	В	0"			
C	25'-7 3/8"	C	20'-0"			
)	58'-0"	D	58'-0"			
Ξ	42'-0"	E	70'-5 7/16"			

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HOLD DOWN NOTES

REFER TO DETAIL (9/FD-I) FOR HOLD DOWN OFFSET DIMENSIONS. REFER TO DETAIL (12/FD-I) FOR HOLD DOWNS ON CMU BLOCK.

INFORMATION ON ANCHOR DETAILS)

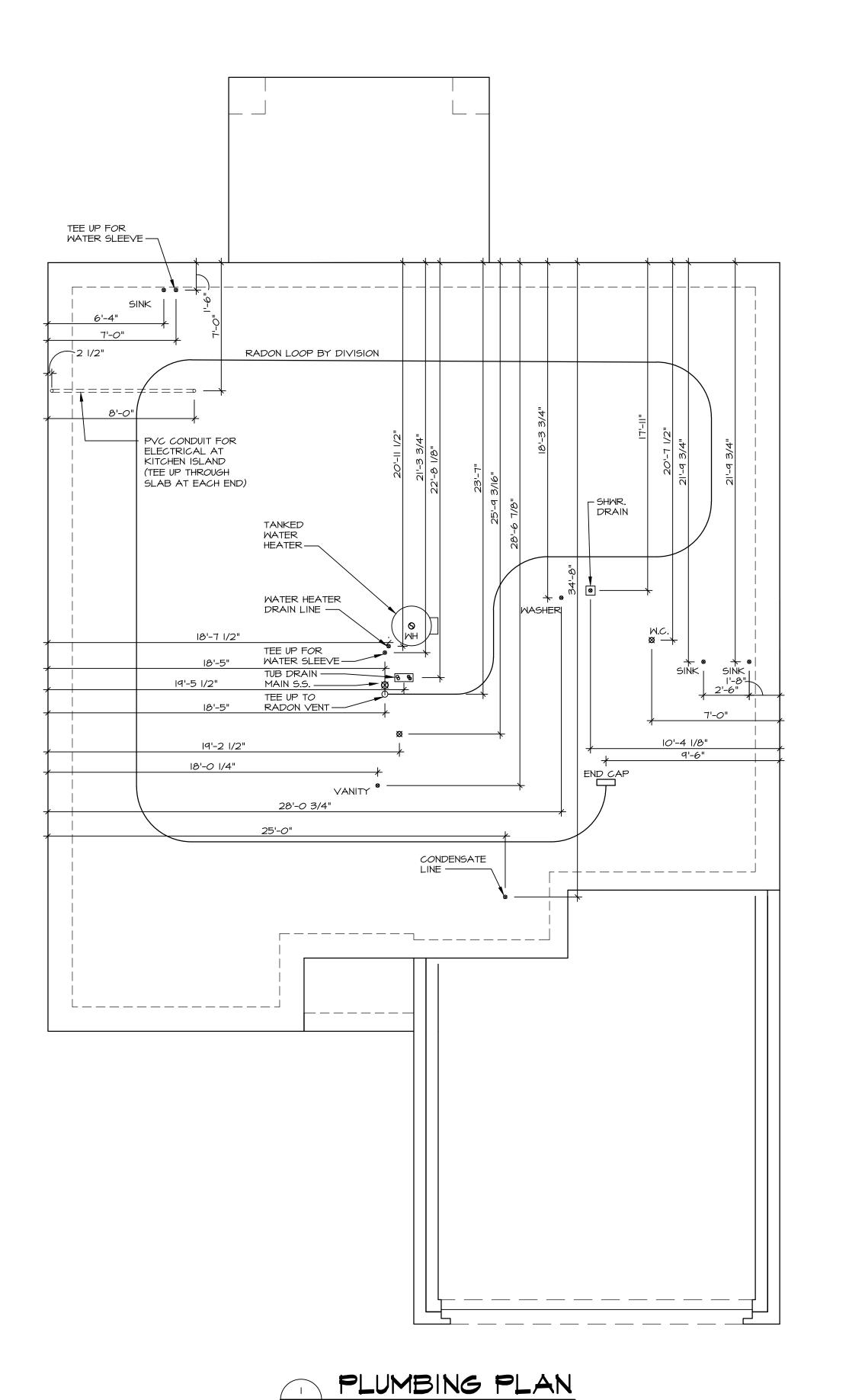
ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FC-I FOR MORE

a. ON FOUNDATION USE (STHD14)
b. ON FLOOR SYSTEM USE (STHD14RJ)
2. ALL OTHER HOLD DOWN SEE DETAIL WB-_
FOR MORE INFORMATION.
3. STRAP LOCATION ON PLANS SHOWN BY
DASHED DIMENSION TO CENTER OF STUDS

THREADED ROD

ALL OTHER HOLD DOWN SEE DETAIL WB-_
FOR MORE INFORMATION.

BOLT LOCATION ON PLANS SHOWN BY SOLID DIMENSION TO CENTER OF BOLT



PLUMBING NOTES:

RADON REMEDIATION

RADON LOOP:

- (4") PERFORATED "LOOP"

- MUST BE PLACED IN STONE BED SLIGHTLY HIGHER THAN ANY INTERIOR DRAINTILE

- LOOP TO BE SEPARATE FROM ANY DRAINTILE ELEMENTS

- TO BE CORRUGATED PIPE

- SCREWS TO BE INSTALLED THROUGH LOOP AT TEE UP INTO STACK

STACK REQUIREMENTS:

- 3" PVC STACK (4" IF BASEMENT IS GREATER THAN 2200 SQFT.)

- NO PART OF STACK IS TO BE HORIZONTAL (45° ELBOWS PERMITTED AS REQUIRED)

NO PART OF STACK IS TO BE HORIZONTAL (45° ELBOWS PERMITTED AS REQUIRED)

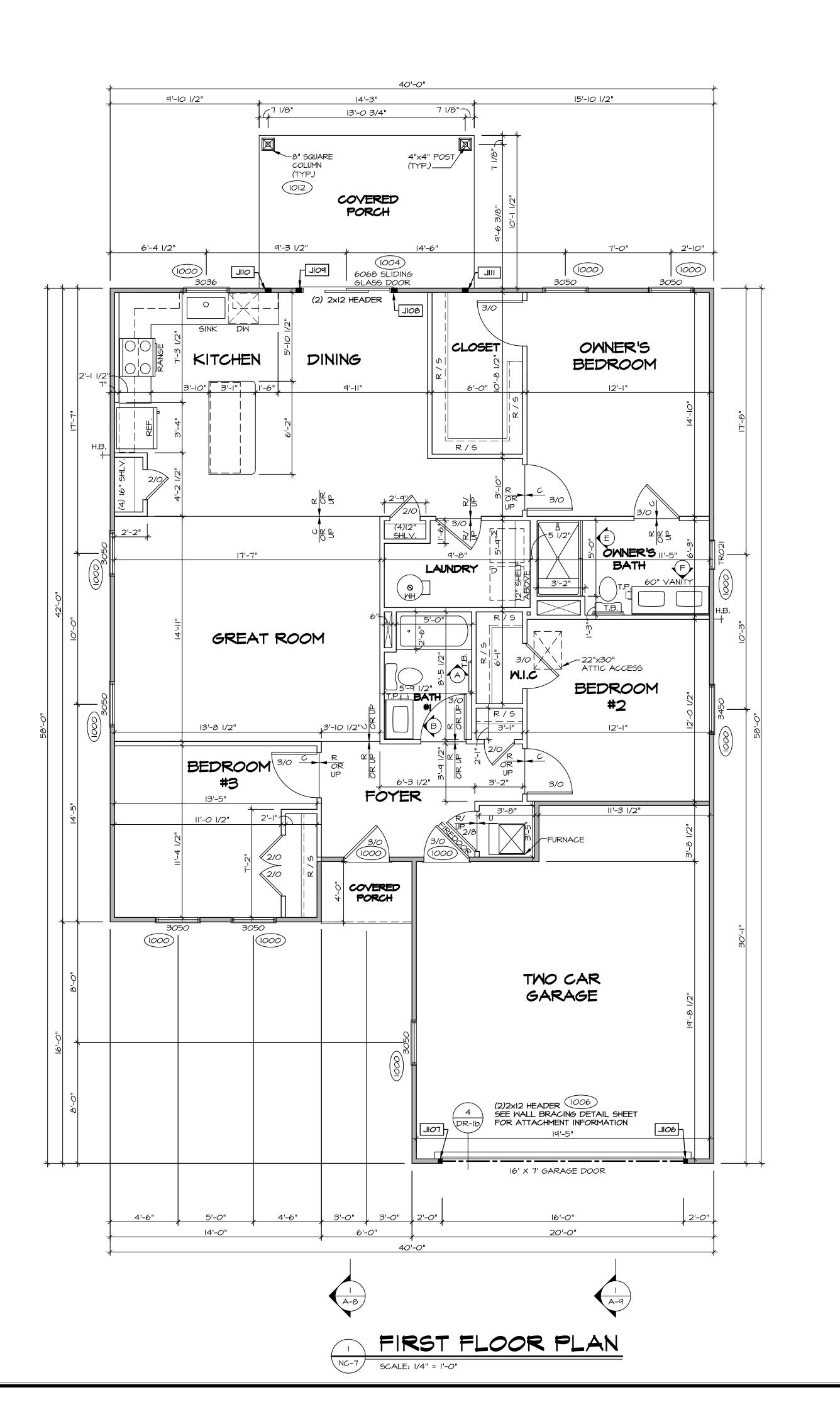
PIPE TO BE PHYSICALLY LABELED IN THE FIELD AS "RADON VENT" OR OTHER JURISDICTIONALLY REQUIRED LANGUAGE (ON EVERY LEVEL OF HOUSE)

ROOF TERMINATION TO BE IN TOP 1/3 OF ROOF SCREEN OR VENT CAP INSTALLED TO KEEP PESTS OUT OF RADON VENT AT ROOF TERMINATION.

INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISION

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	FIRST FLOOR JACK S	SCHEDUL	Æ
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS
JI06	JACK - (2) 2X4 SPF STUD GRADE	1006	
TOIL	JACK - (2) 2X4 SPF STUD GRADE	1006	
80IL	JACK - (3) 2X4 SPF STUD GRADE	1004	
POIL	JACK - (3) 2X4 SPF STUD GRADE	1004	
OIIL	JACK - (3) 2X4 SPF STUD GRADE	1012	
IIL	JACK - (3) 2X4 SPF STUD GRADE	1012	



FLOOR PLAN NOTES:

- ALL HEADERS ARE (2) 2x6 w/ 2x4 WALLS OR (3) 2x6 w/ 2x6 WALLS, UNLESS OTHERWISE NOTED. ALL HEADERS TO HAVE (I) 2x4 OR 2x6 JACK AND KING STUD EACH END, UNLESS OTHERWISE NOTED. MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARING, UNLESS OTHERWISE NOTED. NO ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE
- ALL EXTERIOR WALLS TO BE 4" OR 6" AND ALL INTERIOR WALLS TO BE 3 I/2", UNLESS OTHERWISE NOTED. . HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DETAIL 8/IT-IB FOR 3/4" FIRE STOPPING AT BULKHEAD / CEILING PANELS
- SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF APPLICABLE. SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR
- INTERIOR TRIM DETAILS. SEE DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE. ALL HEADERS IN NON-BEARING WALLS SHALL BE A
- SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES ABOVE, UNLESS OTHERWISE NOTED. TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN
- LIEU OF TANKED WATER HEATER. O. INTERIOR HEADER HEIGHT FOR 8' CEILING WILL BE 6'-II",
 9' CEILING WILL BE 7'-II", IO' CEILING WILL BE 8'-3", UNLESS OTHERWISE NOTED.
- . ALL INTERIOR BEARING WALLS SHALL HAVE GYPSUM APPLIED TO AT LEAST ONE SIDE OR HAVE MID-HEIGHT BLOCKING INSTALLED. . NON-BEARING WALLS OVER CONCRETE TO BE HELD 1/2"

GYPSUM NOTES:

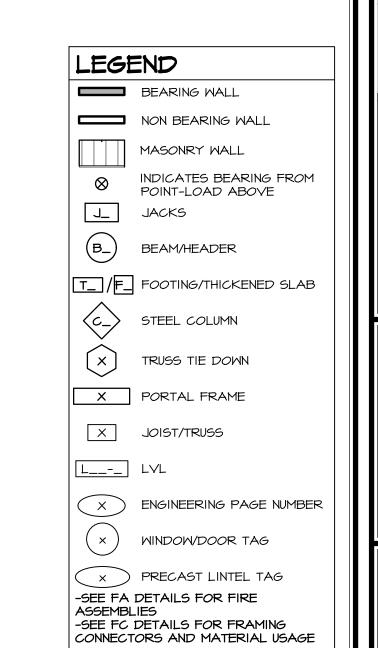
SHORT OF FRAMING ABOVE.

AT GARAGE:

GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-I(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:

1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS IN CLOSET

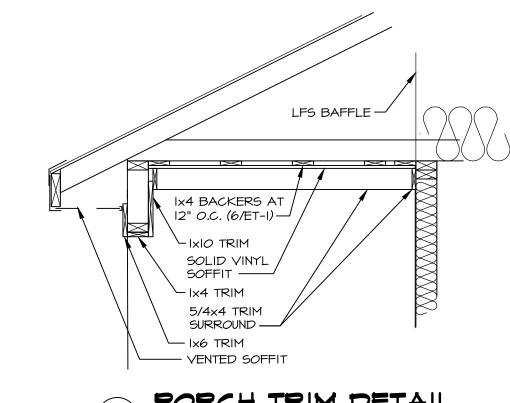


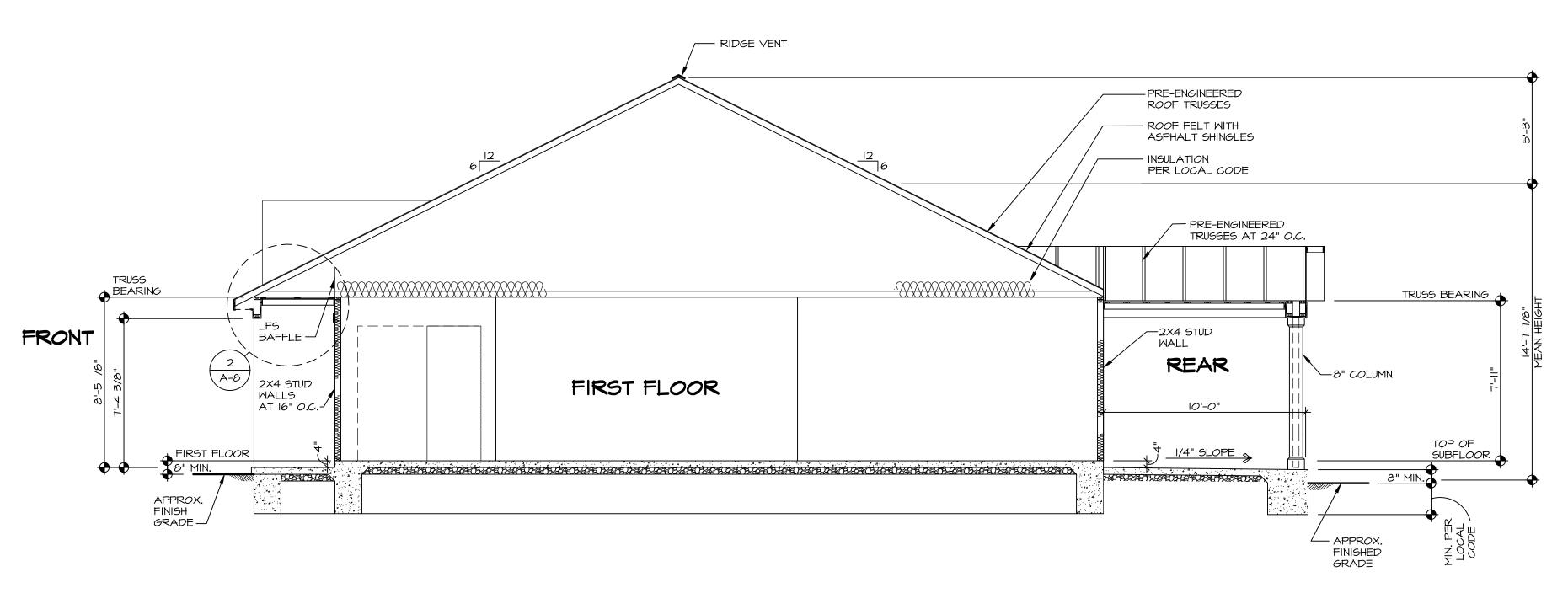
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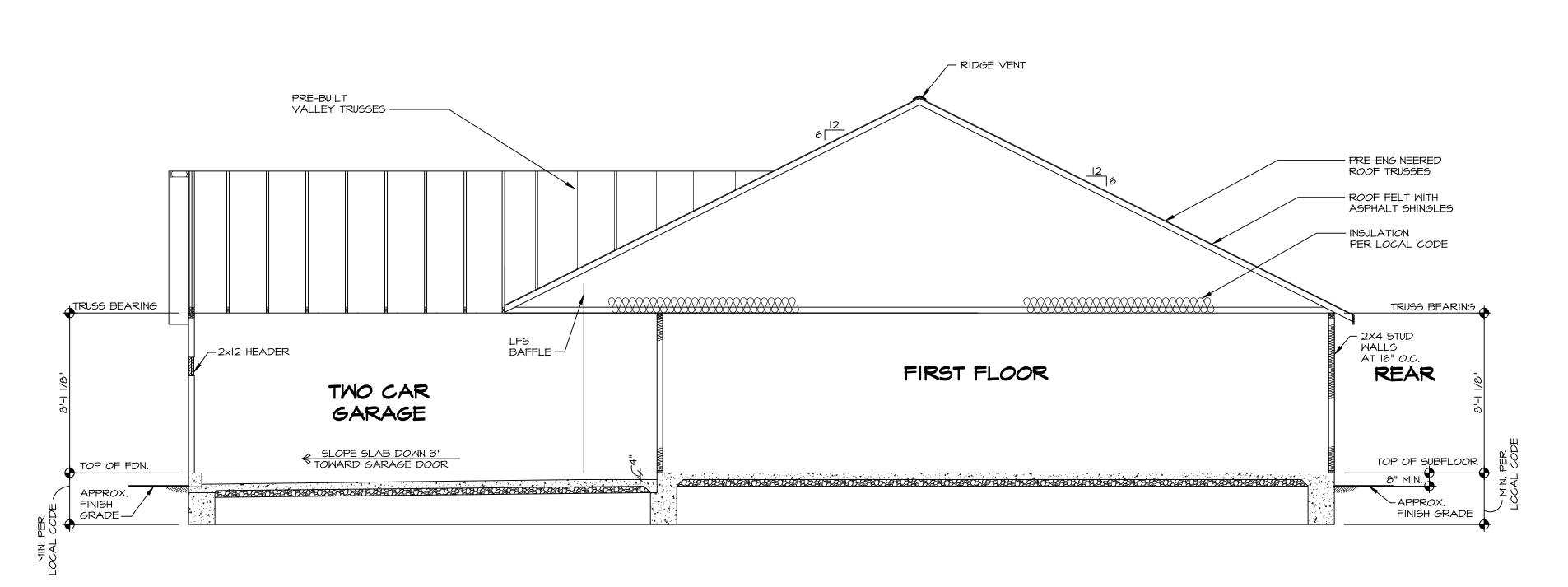


BUILDING SECTION - FOYER

SCALE: 1/4" = 1'-0"

seals are not required for – and should not be placed by NVR on – these plans and specifications. PORCH TRIM DETAIL A-8 SCALE: 3/4" = 1'-0"

Carolina Board of Architecture and Registered Interior Designers, architectural



BUILDING SECTION - GARAGE

NC-9 SCALE: 1/4" = 1'-0"

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James Bales 10/21/2025

COMM-LOT

KIPLING VILLAGE - 0029

STREET ADDRESS

77 SAINTSBURY DRIVE

CITY

STATE

ZIP

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DATE: O2/20/20
OPTION
52

CAYAN

CTION - GARAGE

TION

MODEL

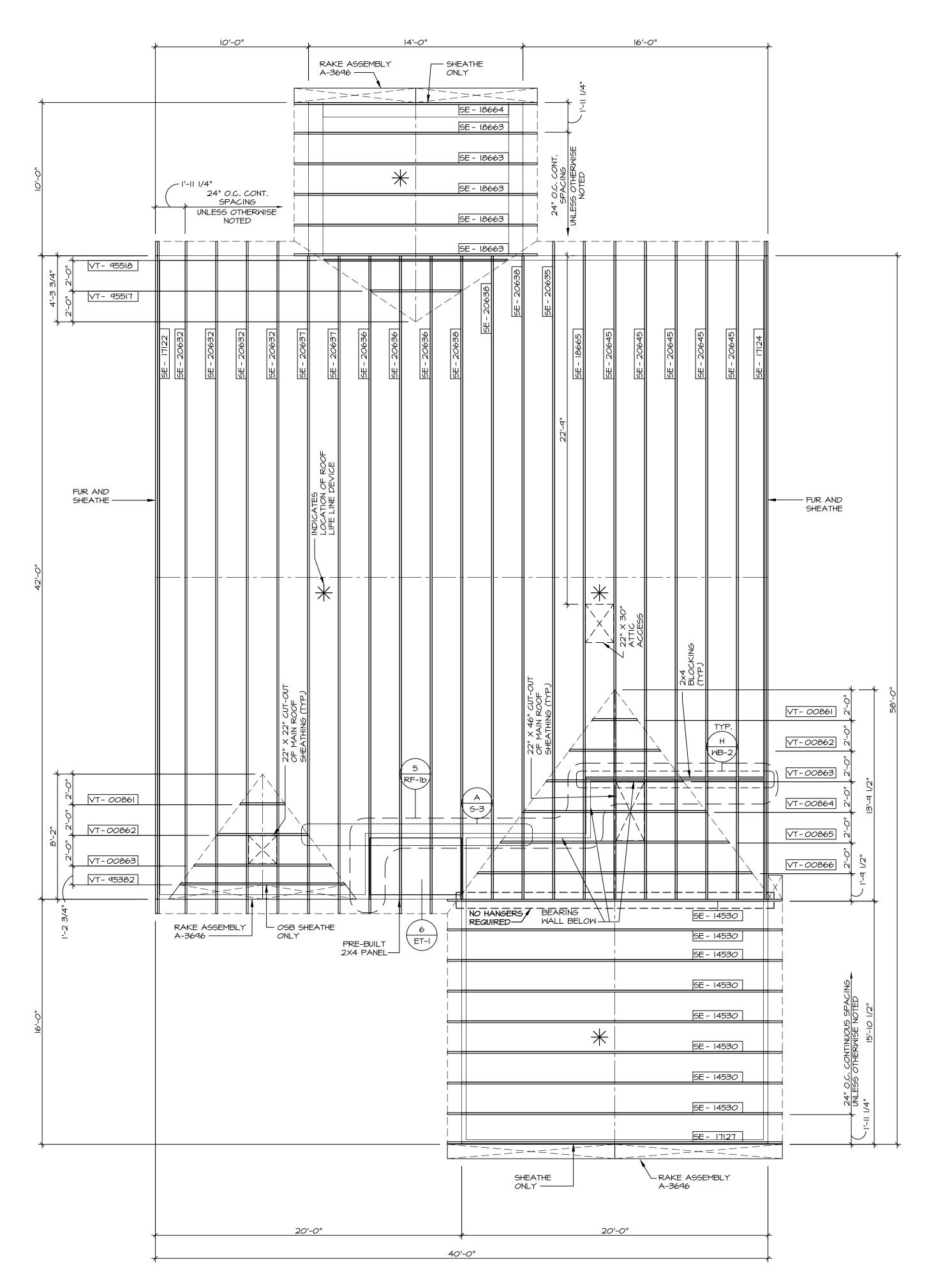
GRAND CAYMAN

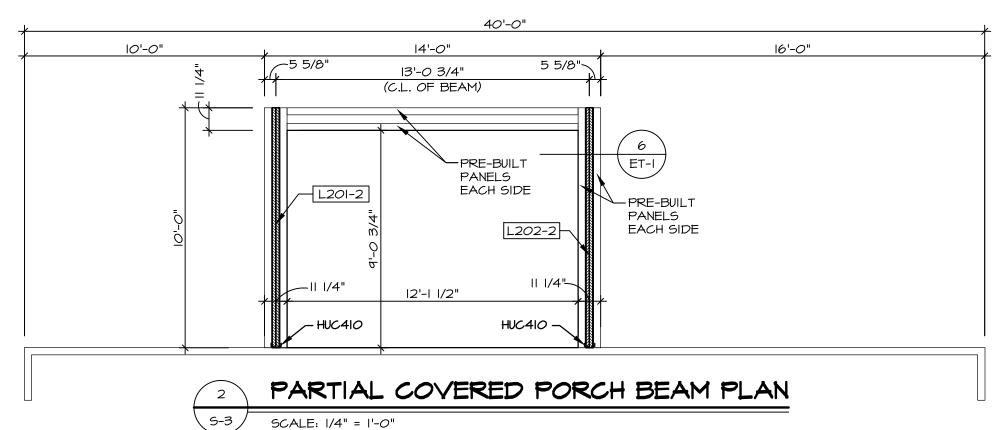
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BUILDING SECTION - GARAGE

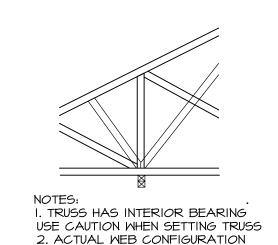
OPTION DESCRIPTION

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TRUSS SCHEDULE						
QUANTITY	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/I2)	REMARKS	
8	SE	14530	20'-0"	8/12	COMMON	
1	SE	17122	42'-0"	6/12	COMMON	
1	SE	17124	42'-0"	6/12	COMMON	
1	SE	17127	20'-0"	8/12	COMMON	
5	SE	18663	14'-0"	4/12	COMMON	
1	SE	18664	14'-0"	4/12	COMMON	
I	SE	18665	42'-0"	6/12	COMMON	
4	SE	20632	42'-0"	6/12	COMMON	
1	SE	20635	42'-0"	6/12	COMMON	
3	SE	20636	42'-0"	6/12	COMMON	
2	SE	20637	42'-0"	6/12	COMMON	
3	SE	20638	42'-0"	6/12	COMMON	
5	SE	20645	42'-0"	6/12	COMMON	
2	VT	00861	3'-0"	8-6/12	COMMON	
2	VT	00862	6'-0"	8-6/12	COMMON	
2	VT	00863	9'-0"	8-6/12	COMMON	
1	VT	00864	12'-0"	8-6/12	COMMON	
1	VT	00865	15'-0"	8-6/12	COMMON	
1	VT	00866	18'-0"	8-6/12	COMMON	
1	VT	95382	10'-10 1/8"	8-6/12	COMMON	
I	∨T	95517	6'-0"	4-6/12	COMMON	
	VT	95518	12'-0"	4-6/12	COMMON	



INTERIOR TRUSS BEARING DETAIL SCALE: NTS

MAY VARY

FIELD INSTALLED ROOF FRAMING BEAM/HEADER					
SCHEDULE					
DENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS	
L201-2	LVL 1.75 - 09-04	10'-0"	1012	I.A	
L202-2	LVL 1.75 - 09-04	10'-0"	1012	I.A	

LVL PLY TO PLY FASTENING SCHEDULE: (WHERE APPLICABLE BASED ON LVL USAGE) I.A - (2) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROWS 16D NAILS AT 12" O.C. OR

- 2.A (2) PLY 14" UP TO AND INCLUDING 18": FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C. OR ALT I I/2" WIDE LVL FASTEN PLIES W/ (4) ROWS I2D NAILS AT I2"O.C.
- 3.A (2) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE LVL FASTEN PLIES W/ (5) ROWS 12D NAILS AT 12"O.C.
- 4.A (3) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (3) ROWS 12D NAILS AT 12"O.C. FROM

ALT I 1/2" WIDE LVL FASTEN PLIES W/ (3) ROWS 12D NAILS AT 12"O.C.

- 5.A (3) PLY 14" UP TO AND INCLUDING 18": FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12"O.C.
- FROM EACH SIDE OR ALT I 1/2" WIDE LVL FASTEN PLIES W/(4) ROWS 12D NAILS AT 12"O.C. FROM
- 6.A (3) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT I I/2" WIDE LVL FASTEN PLIES W/ (5) ROWS I2D NAILS AT I2"O.C. FROM EACH SIDE. 7.A - (4) PLY (ALL SIZES); FASTEN PLIES WITH (3) ROWS OF SDW22634 STRUCTURAL WOOD SCREWS, OR EQUIVALENT, AT 16" O.C. STAGGERED. SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

ROOF	FRAMING	NOTES:

- REFER TO THE STANDARD DETAILS FOR THE FOLLOWING:
- I.I. TRUSS TIE-DOWNS (I/RF-I)
- I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I)
- I.3. VALLEY GABLE TRUSS BRACING (3/RF-I)
- I.4. GABLE BRACING (I/RF-Ic)
- 1.5. TURN GABLE BRACING (7/RF-I)
- I.6. TRUSS LATERAL BRACING (2/RF-IC)
- 1.7. LIFELINE ATTACHMENT (5/RF-I) 1.8. FALL PROTECTION ON PLATFORM TRUSS (II/RF-I)
 2. IF TRUSS DOES NOT APPEAR ON THE TRUSS BRACING
- SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED ALL FINISHED ROOF OVERHANGS ARE TO BE 12" FROM FRAMED WALL UNLESS OTHERWISE NOTED.

ROOF FRAMING SCALE: 1/4" = 1'-0"

seals are not required for and should not be placed by NVR on these plans and specifications. SEAL 44932 AN EDWARD Firm license #: D-047 MODEL

GRAND

DRAWING TITLE

ROOF FRAMING

As directed by the North

Carolina Board of Architecture and

Registered Interior Designers, architectural

BEAM/HEADER T_/F_ FOOTING/THICKENED SLAB STEEL COLUMN TRUSS TIE DOWN X PORTAL FRAME X JOIST/TRUSS L__-_ LVL ENGINEERING PAGE NUMBER WINDOW/DOOR TAG X PRECAST LINTEL TAG -SEE FA DETAILS FOR FIRE ASSEMBLIES -SEE FC DETAILS FOR FRAMING CONNECTORS AND MATERIAL USAGE

LEGEND

J_

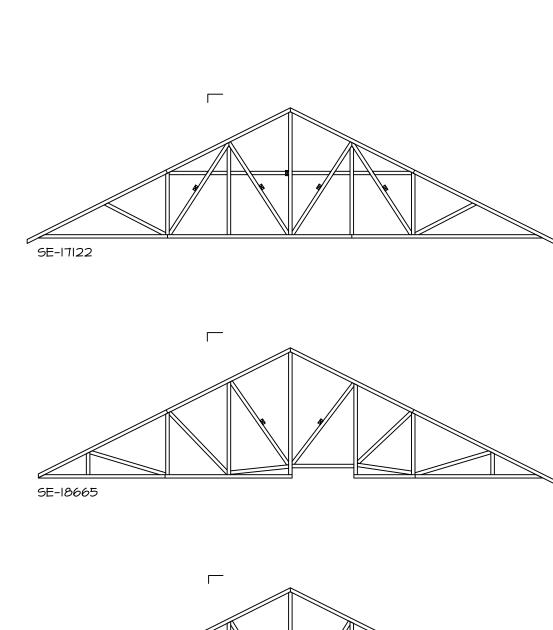
BEARING WALL

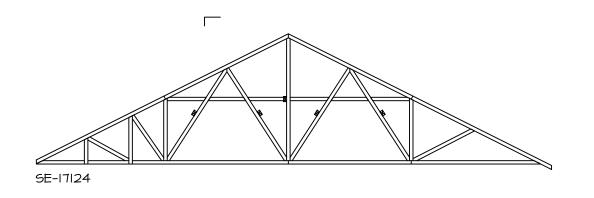
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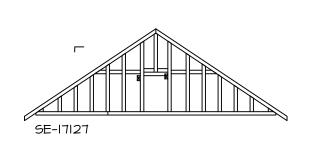
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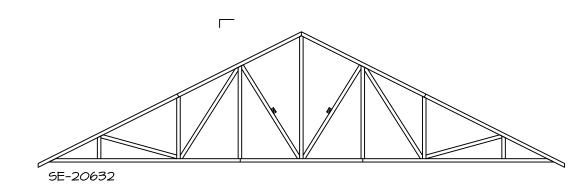
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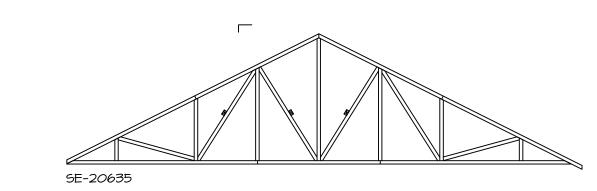
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TRUSS BRACING NOTES:

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- 2. 2X4 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR
- LATERAL BRACING.

 3. WEB "T" BRACE, DETAIL 3/RF-Ic, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN
- LIEU OF 2X4 LATERAL BRACING. . DIAGONAL BRACING REQUIRED WHEN LATERAL
- BRACING IS REQUIRED (4/RF-Ic)
- 5. STUDDED GABLE BRACING DETAIL (I/RF-Ic) TO BE
 UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.

 5. PARTIALLY SHEATHED GABLES, SEE (5/RF-Ic) FOR "L"
 BRACING WHEN REQUIRED.
- 7. LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.
 8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

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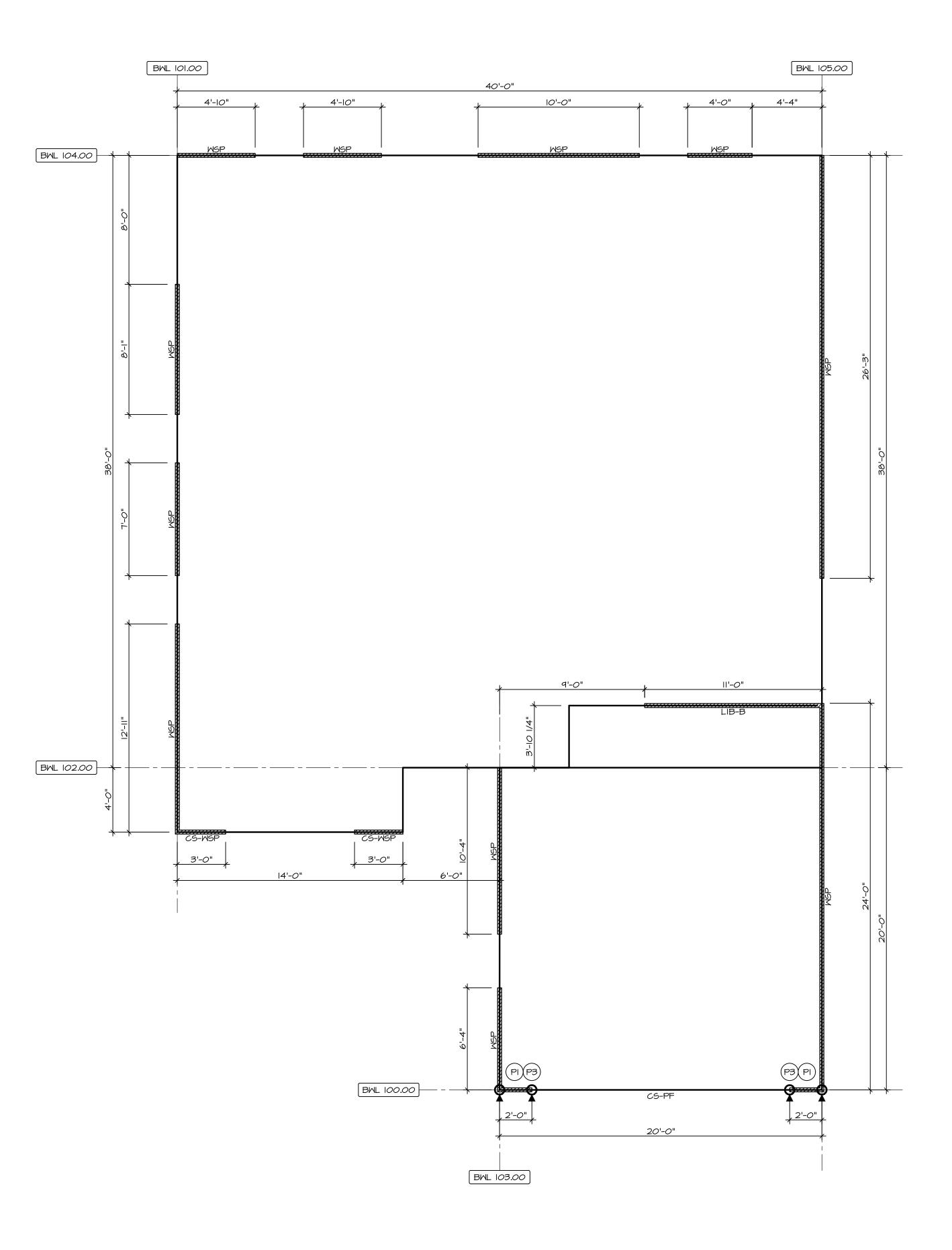
MODEL

GRAND

DRAWING TITLE

TRUSS BRACIN

BRACED WALL LINE SCHEDULE				
WIND SPEED (ULT)	IDENTIFIER	REQUIRED (FT)	ACTUAL (FT)	METHOD
130 MPH	BWL 100.00	5.25'	6.00'	CONTINUOUS (WITH GWB)
130 MPH	BWL 101.00	8.63'	27.99'	MSP (WITH GMB)
130 MPH	BWL 102.00	15.84'	17.00'	LIB
130 MPH	BWL 103.00	5.05'	16.66'	MSP (MITH GMB)
130 MPH	BWL 104.00	10.72'	23.66	MSP (WITH GMB)
130 MPH	BWL 105.00	9.09'	50.25'	MSP (MITH GMB)





BRACING LEGEND

BWL XXX.XX	BRACED WALL LINE I.D.
	BRACED WALL LINE
	HOUSE WALL
7///////	BRACED WALL PANEL
MSP	WOOD STRUCTURAL PANEL
GB	GYPSUM BOARD (I) SIDED OR (2) SIDED
GB-BM	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (I) SIDED OR (2) SIDED (SEE STANDARD DETAIL G/WB-2)
LIB	LET-IN BRACING (SEE STANDARD DETAIL F / WB-2)
CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL
CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL A, C/ WB-2)
CS-G	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS
ю	HOLD-DOWN I. SEE SHEET WB-2 "P_" INDICATOR SCHEDULE AND DETAILS 2. ARROW INDICATES LOCATION

NOTES:
HOUSE HAS BEEN ANALYZED UTILIZING A PRESCRIPTIVE METHOD IN COMPLIANCE WITH INTERNATIONAL RESIDENTIAL CODES (IRC) UNLESS OTHERWISE NOTED.

FASTENING SCHEDULE				
SHEATHING	EAGTENED	SPACING		
	FASTENER	EDGES	FIELD	
7/16" WOOD STRUCTURAL PANELS OR EQUIVALENT (W/ METHOD WSP, CS-WSP, CS-G)	8d COMMON NAILS	6" O.C.	6" O.C.	
	ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	6" O.C.	
I/2" GYPSUM WALLBOARD (W/ METHOD GB-I, GB-2)	I-1/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	7" O.C.	7" O.C.	
	CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	7" O.C.	7" O.C.	
/2" GYPSUM WALL BOARD BLOCKED AT THE EDGES (W/ METHOD GB-BW-I, GB-BW-2, ENG-BW)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USED CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	4" O.C.	12" O.C.	
NOTES.				

- NOTES:

 I. MINIMUM 7/16" CROWN WIDTH FOR STAPLES IN WOOD STRUCTURAL PANEL.

 2. SPECIFIED GYPSUM FASTENING REQUIRED ONLY WHERE METHOD GB IS IDENTIFIED. SEE PHASE SPECS FOR TYPICAL GYPSUM FASTENER SPACING.

 3. USE OF STAPLES IN WOOD STRUCTURAL PANEL AS FASTENING METHOD ON WALLS PER ENGINEERED ALTERNATIVE.

 4. WALL PANELS NOT IDENTIFIED AS BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH THE WSP METHOD.

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