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. 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.

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Det		Description		Description	Pere OL ( Description
Page	Sheet		Sheet	Description	Page Sheet Description
1	CS-1	COVERSHEET			
1.1	SS-1	SPEC. SHEET			
2	CA-1	ROOF VENT AND VOLUME CALCULATIONS			
5	NC-1	ELEVATIONS			
7	NC-2	FOUNDATION			
9	NC-3	FOUNDATION HOLD DOWN			
10	NC-4	PLUMBING			
12	NC-6	FIRST FLOOR PLAN			
13	NC-7	BUILDING SECTION - FOYER			
14	NC-8	BUILDING SECTION - GARAGE			
21	S-2	ROOF FRAMING			
22	S-3	TRUSS BRACING DETAILS			
23	S-4	WALL BRACING DETAILS			
	AD-1	HOUSE SPECIFIC DETAILS			
	DR-1	DOOR DETAILS			
	DR-1B	DOOR DETAILS			
	DR-3	DOOR DETAILS			
	ET-1	EXTERIOR TRIM DETAILS			
	ET-1B	EXTERIOR TRIM DETAILS			
	ET-1C	EXTERIOR TRIM DETAILS			
	ET-1D	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-3	FLASHING DETAILS - STONE			
	F-3B	FLASHING DETAILS			
	FA-1B	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			
	KT-1	KITCHEN TRIM DETAILS			
	RF-1	ROOF FRAMING DETAILS			
	RF-1B	ROOF FRAMING DETAILS			
	RF-1C	ROOF FRAMING DETAILS			
	SEP-1	SEP DETAILS			
	SEP-2	SEP DETAILS			
	SEP-3	SEP DETAILS			
	SEP-4	SEP DETAILS			
	SP-1	SAFETY DETAILS			
	SP-2	SAFETY DETAILS			
	SP-3	SAFETY DETAILS			
	WB-1	WALL BRACING DETAILS			
	WB-2	WALL BRACING DETAILS			
	WD-1	WINDOW DETAILS			
	WD-3	WINDOW DETAILS			
	WS-1B	WALL SECTION DETAILS			

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STREET A | ---- ----

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S	TRUCTURAL	DESI

ALL LOCAL AND STATE CODES ROOF LIVE LOAD 20 psf ULTIMATE WIND SPEED 130 mph WIND EXPOSURE CATEGORY B SEISMIC DESIGN CATEGORY A / B

IM-LOT-UNIT	

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

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BIGN CRITERIA

### 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 sheet reference.
- 2. These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design improvements.
- 3. These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all scale references.
- 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 Section 301.1.3.

### CODE ANALYSIS

- I. 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

### 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	FL <i>OO</i> R R-VALUE	BASEMENT WALL R-VALUE UNFIN. / FIN.	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
З	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 ÁCCA 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
- 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: Minimum 18 sq. in. of vent per linear foot Ridae 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

Table of Loads for House Structure. Per Table 301.5

Elecality	ha haar	
Floor Livi	ing Areas	- 40# P.S.F. (Live) - 10# P.S.F. (Dead) unless noted otherwise
Floor Sle	eping Areas	by calculations - 30# P.S.F. (Live) unless noted otherwise
		by calculations
		- 10# P.S.F. (Dead) unless noted otherwise by calculations
Garage F	loors	- 50# P.S.F. (Live)
		- 50# P.S.F. (Dead)
Roof Areas	- Top Chord	- 20# P.S.F. (Live)
		- 10# P.S.F. (Dead)
	- Bottom Chord	- IO# P.S.F. (Live) (Attics without storage)
		- 20# P.S.F. (Live) (Attics with limited storage)
		- 10# P.S.F. (Dead)
Habitable	Attics	- 30# P.S.F. (Live)
Trusses		- Areas up to <b>130 mph</b> ultimate wind speed per Table R301.2(4)
		- Exposure category 'B'
Walls		- Areas up to 130 mph ultimate wind speed per Table R301.2(4)
		Vult 115 mph 130 mph Vasd 89 mph 101 mph
		Note: Linear interpolation between contour lines permitted.
Stairs		- 40# P.S.F. (Live)
		- 10# P.S.F. (Dead)
Allowable	e deflection of struc	ctural members per IRC T <b>able R301.7</b>

### <u>Design Criteria</u>

Design Codes:

- National Design specification for Wood Construction by National Forest Products Associatio
- 2. Specification for the Design Fabrication and Erection of Structural Steel for Buildings by American Institute of Steel Construction.

### Materials

- Headers\* Southern Pine (KD-19), No. I Grade Spruce-Pine-Fir, Stud Grade Studs Spruce-Pine-Fir, Stud Grade Jacks Beams\*\* Southern Pine (KD-19), No. 1 Grade
- 2x10 Hem-Fir (KD-19), No. 2 Grade or better (WCLIB & WWPA) Joists
- 2x8 Southern Pine (KD-19), No. 1 Grade or better 2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NLGA) 1.9E Minimum LVL
- 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 or wall height conditions may require a higher psi mix.
- 3. Walls and footings designed as unreinforced unless otherwise specified on foundation plans or
- 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 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
- 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 1 vapor retarder, in which case the minimum net area of ventilation shall not be less than 1 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#
- 12. Concrete and masonry foundation walls shall be dampproofed with min. 3/8" portland cement
- approved bituminous material applied at the recommended rate per R406.1. 13. Where required, concrete and masonry foundation walls shall be waterproofed with an
- 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 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 R407.2.

- 17. For masonry veneers:
- and shall support not more than 2.67 square feet of wall area. For townhouses in Seismic tie shall support not more than 2 square feet of wall area.
- than 3 feet (9144 mm) on center and placed within 12 inches (305 mm) of the wall opening. be provided behind brick.
- immediately above the flashing.
- Per R103.8.5 When veneer of brick, clay tile, concrete, or natural or artificial stone are 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 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)

				INEERED DESIGN PE	R ACI 552		
MALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)		
		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)		
	8"	45	יד-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)		
	8"	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)		
8'-0"			ד'-0"	#4 @ 22" <i>O</i> .C. (d)	3- #4 BARS (d,e)		
	10"	45	6'-0"	NOT REQUIRED	2- #4 BARS (f)		
				-+5	7'-0"	NOT REQUIRED	2- #4 BARS (f)
		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)		
	8"	CT CT	8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)		
					(0)	ר'ד-0"	#4 @ 19" O.C. (d)
q'-0"		60	8'-0"	#4 @ 15" <i>O.</i> C. (d)	4- #4 BARS (d,e)		
		45	7'-0"	NOT REQUIRED	3- #4 BARS (g)		
	10"	45	8'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)		
		60	ד'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)		
			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. HORIZONTAL BARS.
- g. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

mix, and 3,000 psi minimum strength per Foundation Wall Design table below. Special soil and

details. Special soil and/or site conditions may require the addition of reinforcing.

represented on plans as nominal 4") over 4" sub-base, with vapor barrier (6-mil polyethylene)

/ undisturbed soil per Table R402.2. Slabs shall be 3,500 PSI air-entrained concrete.

square foot for each 1,500 square feet of area. One such ventilating opening shall be within 3

per cubic ft. may be substituted where masonry units (block) are shown on plans. parging from footing to top of finished grade. The parging shall be covered with a coat of

approved membrane extending from footing to top of finished grade. The joints in the

concrete or grouted 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. (I) anchor strap and those 12" or shorter can be

Per R703.8.4.1 - Corrugated sheet metal veneer ties shall be a minimum of No. 22 U.S. gauge by 7/8 inch. Each tie shall be spaced not more than 32" o.c. horizontally and 24" o.c. vertically Design Category C and in wind areas of more than 30 pounds per square foot pressure, each

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 Per R103.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall

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

used, 6 mil plastic flashing shall be attached to the sheathing wherever necessary to prevent

noted as specified by engineering. Strip footing projections beyond the face of the foundation

### NCREC PRESCRIPTIVE CODE OR ENGINEERED DESIGN PER ACI 332

MAINTAIN 2" OF CONCRETE COVER BETWEEN INSIDE FACE OF WALL AND FACE OF

F. ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404.1.2(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 sq 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 eqress from habitable rooms shall have nominal minimum dimensions of 2'-6" by 6'-8" per R31.61. 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.
- 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 R302.7.
- 6. Guard rails to have minimum height of 36" and shall not have openings from the walking surface to the required guard 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 guard, 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 side. Insect screening shall not be considered as a quard.
- 10. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per RTO3.4. See NVR Flashing Details.
- II. Wood framed bearing walls shall 2 x 6 at 24" o.c. maximum or 2 x 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 I-1/4" drywall screws.

SCREW FASTENING SCHEDULE						
WITH ADHESIVE						
Framing Spacing	Ceilings	Load-brg. walls	Non-load-brg. walls			
16	16	24	24			
24	16	16	24			
	MITI	HOUT ADHESIVE				
Framing Spacing	Ceilings	Load-brq. walls	Non-load-brq. walls			
16	12	16	16 -			
24	12	2	2			

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" aupsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 578" 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" gypsum board per Section R302.6.. Openings 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 R302.5.1. 18. Asphalt shingles shall be installed per section R905.2. For roof slopes of 2:12 through 4:12, in lieu of two
- layers of underlayment, a self-adhering polymer-modified bitumen underlayment shall be used per section R905.1.1 Exception #1.
- 19. Attic spaces shall be ventilated w/ ridge and soffit vents unless otherwise noted. Venting provided per R806.2
- 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 door per **P2705.**
- 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 per Section R317.
- 27. Exterior eqress 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 R303.6.
- 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): 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 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 apply
- Townhouse construction (R302.2.5):
- Projections extending into the fire-separation distance shall have not less than I-hour fire-resistive construction on the underside. 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. 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. 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 Design Category C.
- 35. Minimum floor sheathing shall be 5/8" tongue & groove decking underlayment grade plugged and sanded, exterior glue, glued and nailed on joists to meet. "American Plywood Association" approved glued floor system, unless otherwise specified.

tection is provided per NFPA 70 (National Electric Code). ce with NFPA 70, Article 408 Section III. Location may each sleeping room; outside each separate sleeping area each additional story of the dwelling, including basements es and uninhabitable attics. Where more than one smoke onnected in such a manner that the actuation of one alarm t. All smoke detectors shall receive their primary power battery backup. bke detectors shall be installed at least 10 feet from a to a bathroom containing a tub or shower, at least 3 ast 3 feet from the tip of a ceiling fan blade. In sleeping	Registered Interio Designers, architectural seals are not required for – and should not be placed by NVR on – these plans and specifications.
vicinity of the room entrance. They shall be installed at or coffered cellings) or within 12 inches vertically from the light source in the vicinity of each landing or directly ng treads and landings to a level not less than Ifc	
per R303.7. talled outside of each separate sleeping area in the l-burning appliance is located within a bedroom or its all be installed within the bedroom. R315.3. otected.	Itititistication       REV. NO.       DATE       REMARKS         Rev no.       DATE       1/2/16/22       CODE UPDATES FOR 2016 NCRBC.         Rev no.       3/1/19       MBT - UPDATES FOR 2016 NCRBC.         Rev no.       27       3/1/19       MBT - UPDATES FOR 2016 NCRBC.         Rev no.       27       3/1/19       MBT - UPDATES FOR 2016 NCRBC.         Rev no.       27       1/2/16/22       CAP - REVISE NOTE FOR 2016 NCRBC.         Rev no.       27       1/2/16/22       CAP - REVISE NOTE FOR 2016 NCRBC.         Rev no.       27       1/2/16/22       CAP - REVISE NOTE FOR 2016 NCRBC.         Rev no.       27       1/2/16/22       CAP - REVISE NOTE FOR 2014 OR 2014 NALLS         Rev no.       27       1/2/16/22       CAP - REVISE NOTE FOR 2014 OR 2014 NALLS
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	5285 Westview Drive, Suite 100         Frederick, MD 21703         0011\2015_IRC_2018_NCRC.dw
	SET NO. VERSION DRAWN BY DATE: DATE: OPTION OPTION ARUBA BAY_ABYOO_02\ELK_R_VK
	MODEL MODEL NGRC 2018 SPEC SHEET DRAWING TITLE DRAWING TITLE SINGLE FAMILY ATTACHED SINGLE FAMILY DETACHED SINGLE FAMILY DETACHED OPTION DESCRIPTION NC State Building Code - Residential Code NC State Building Code - Residential Code NC State Building Code - Residential Code
	SHEET NO. V:\As-So

As directed by the North

Architecture and

### ELECTRICAL

I. Ground-fault and arc-fault circuit interrupter prot 2. Electric panel box installation to be in accordance vary by design.

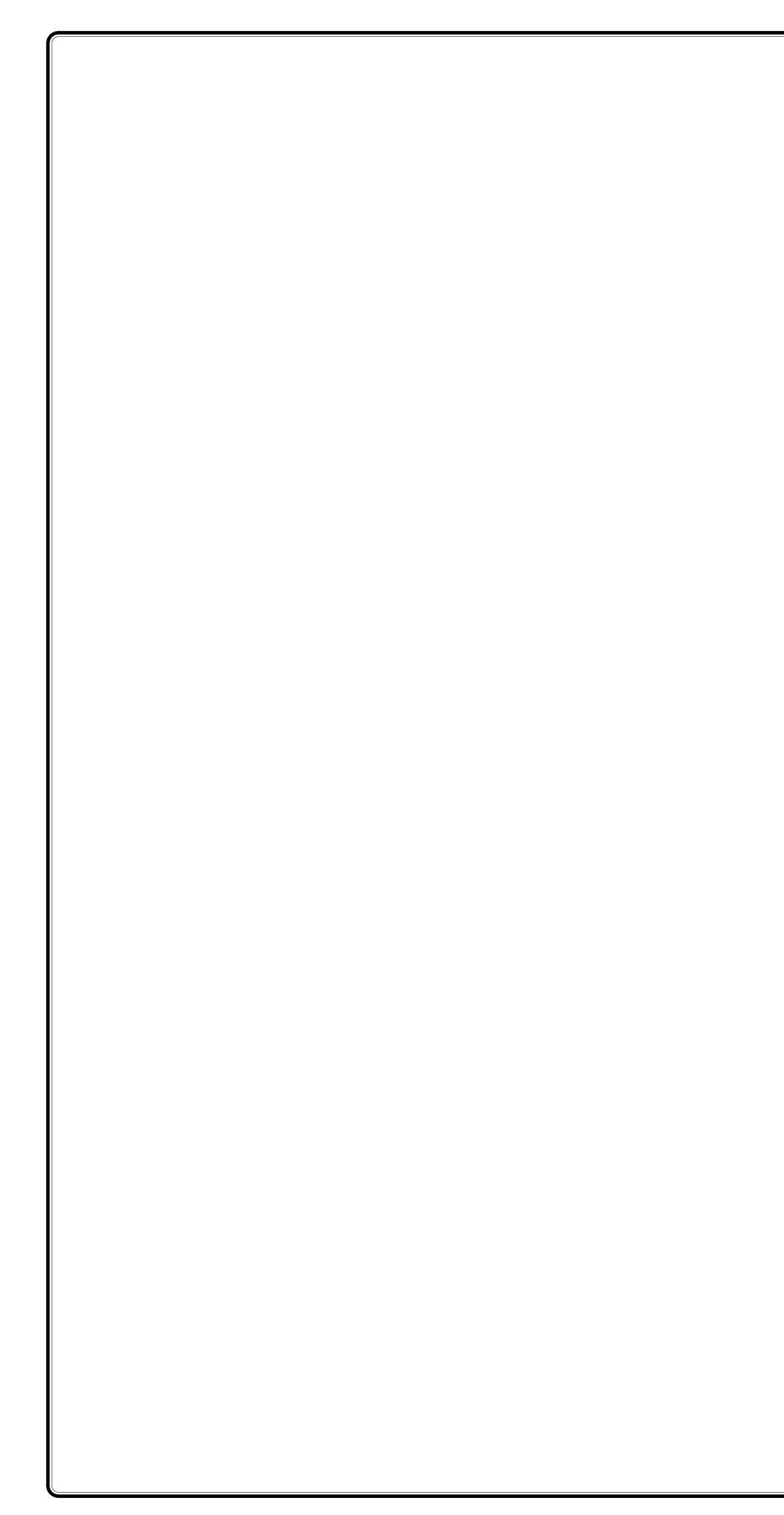
3. Approved smoke detectors shall be installed in in the immediate vicinity of the bedrooms; and on and habitable attics but not including crawl space detector is required, the devices shall be interco will activate all of the alarms in the individual unit from the building wiring and be equipped with a b

4. Unless listed for installation in such locations, smo cooking appliance, at least 3 feet from the door feet from forced air supply registers, and at lea rooms, smoke detectors should be located in the the highest portion of the ceiling (including tray o highest point in rooms with sloped ceilings.

5. Interior stairs shall be provided with an artificial over each stair section and capable of illuminatin measured at the center of the tread or landing p

6. Outlets within 6' of a sink must be GFI protected.

7. An approved carbon monoxide alarm shall be ins immediate vicinity of the bedrooms. Where a fuel attached bathroom, a carbon monoxide alarm sho 8. Outlets installed in laundry areas must be GFI pro





HOUSE NAME HOUSE VERSION PRODUCT LINE

Location / Area of hou Main section of the he Garage bump out fro Porch on front of hous

Location / Area of hou Main section of the h Gable at front of the Garage bump out from

Location / Area of ho Covered Porch "EPE" Full Basement "FBA"

# [NVR]

HOUSE NAME		ARUBA B	AY		
HOUSE VERSION		ABY00_0	)2		
PRODUCT LINE		RYANHON	\ES		
	SOFFIT:		sq in of vent		
VENTILATION VALUES	RIDGE:	18	sq in of vent	per lf	
	BOX / GABLE VENT:	45	sq in of vent	per unit	
		Required:	Required:	-	
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit <i>(lf)</i>	Soffit Vent (sq in)
		A/150	A/300		
Location / Options MAIN HOUSE GARAGE / PORCH	(sq in)	A/150 (sq in)	A/300 (sq in)	(If)	(sq in) 673.20
MAIN HOUSE	(sq in) 166464	A/150 (sq in) 1109.76	A/300 (sq in) 554.88	( <i>lf</i> ) 68	(sq in)
MAIN HOUSE	(sq in) 166464 63649	A/150 (sq in) 1109.76 424.33 Required:	A/300 (sq in) 554.88 212.16 Required:	( <i>lf</i> ) 68 44	(sq in) 673.20 435.60
MAIN HOUSE GARAGE / PORCH	(sq in) 166464 63649 Area (A)	A/150 (sq in) 1109.76 424.33 Required: A/150	A/300 (sq in) 554.88 212.16 Required: A/300	( <i>lf</i> ) 68 44 Soffit	(sq in) 673.20 435.60 Soffit Vent
MAIN HOUSE	(sq in) 166464 63649	A/150 (sq in) 1109.76 424.33 Required:	A/300 (sq in) 554.88 212.16 Required:	( <i>lf</i> ) 68 44	(sq in) 673.20 435.60

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		5285 Westview Drive, Suite 100 Frederick, MD 21703		
SET NO. ABYOO VERSION O2 RELEASE NO	DRAWN BY DATE:	OPTION		  wg 11/21/24 - 2:47 pm
MODEL ARUBA BAY DRAWING TITLE	ROOF VENT AND VOLUME CALCULATIONS VOLUME CALCULATIONS	OPTION DESCRIPTION		C:\NVR\Solves\RLH_VK_0011\Sheets\Lot_Specific\CA-1_CALCS.dwg11/21/242:47_pm
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NVR - Business Use Only

Version 2.0 (Last Revised 04/26/19)

# HOUSE VOLUME CALCULATIONS

	ARUBA BAY
N	ABY00_02
	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)

	<b>ELEVATION "ELK</b>	11	
nouse	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
house	1156.00	12.52	14473
om main house	418.00	10.40	4347
ouse	24.00	8.61	207
		Total House Volume	19027
	ELEVATION "ELL'	1	
nouse	ELEVATION "ELL' Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
nouse house	_		Total volume (cu. Ft.) 14473
	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.) 14473 1140
house	Floor Area (sq. ft.) 1156.00	Mean height (ft.) 12.52	14473

### Additional areas of volume to be added to total house volume as needed

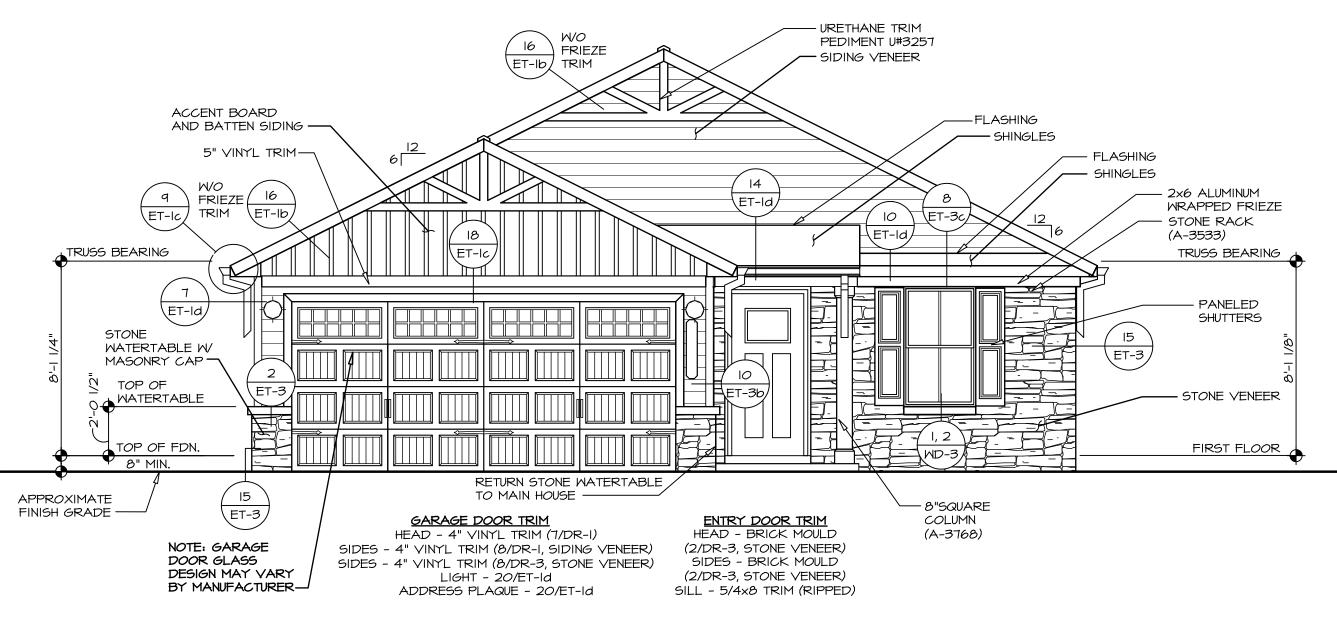
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Covered Porch "EPE"	140.00	9.84	1378
Full Basement "FBA"	1188.46	8.63	10256
Crawl space "FCA"	1149.84	0.83	954
			0
			0
			0
			0

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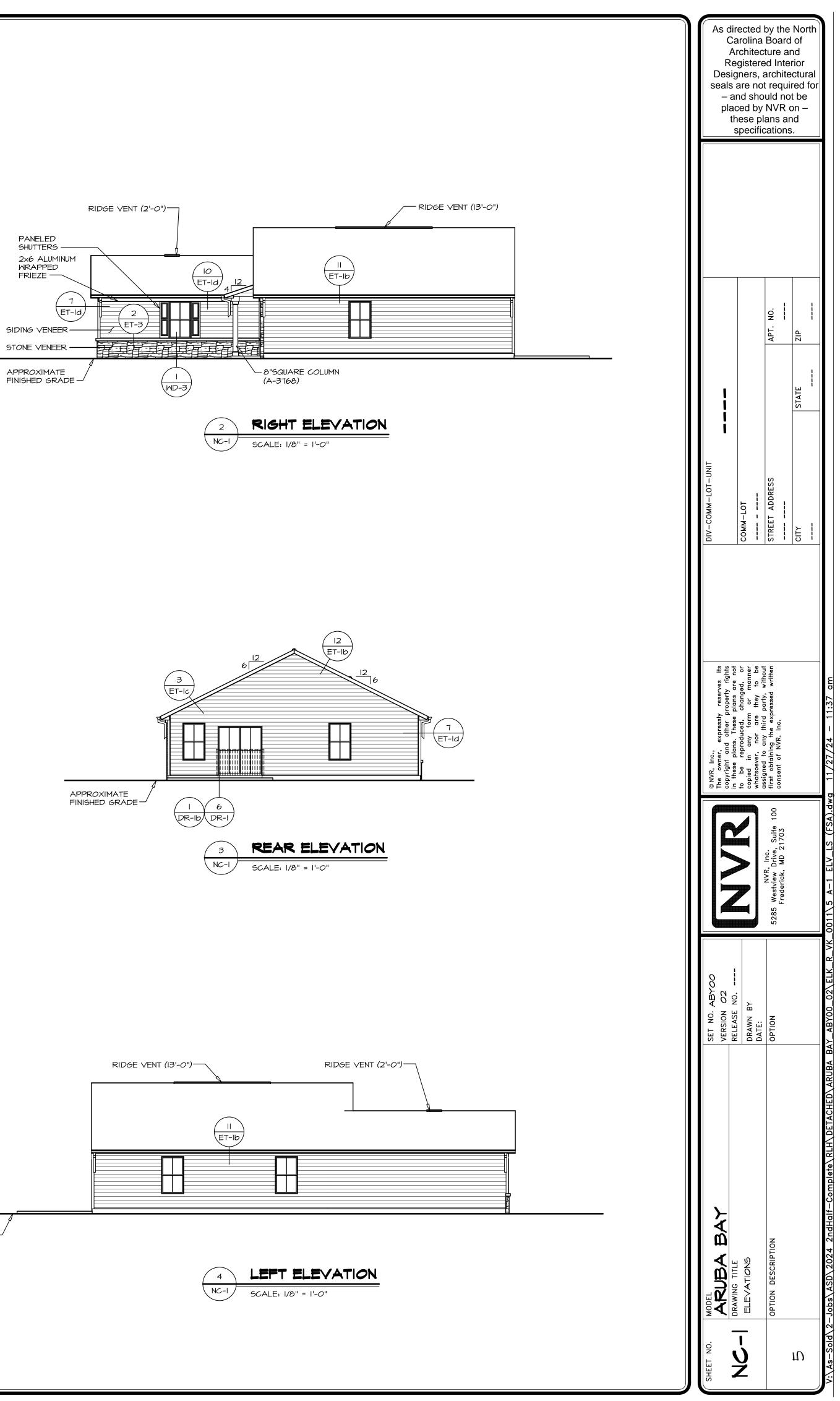
	YES	(any)	(any)	VENT OK	No action req'd.
	NO	YES	ОК	VENT OK	No action req'd.
USER GUIDE	NO	YES	LOW	FAIL	Increase ridge
	NO	YES	HIGH	FAIL	Decrease ridge
	NO	NO	(any)	FAIL	Increase total vent

		ELEV	ATION "I	<b>(</b> "						
ent )	Ridge ( <i>lf</i> )	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent (qty)	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	Notes
3.20	13	234.00			907.20	NO	YES	42.17%	OK	
5.60	0	0.00			435.60	YES	N/A	N/A	N/A	
	ELEVATION "L"									
ent )	Ridge ( <i>lf</i> )	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent <i>(qty)</i>	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	Notes
2.80	14	252.00			964.80	NO	YES	41.83%	OK	Include turn gable ridge vent
6.40	0	0.00			356.40	YES	N/A	N/A	N/A	

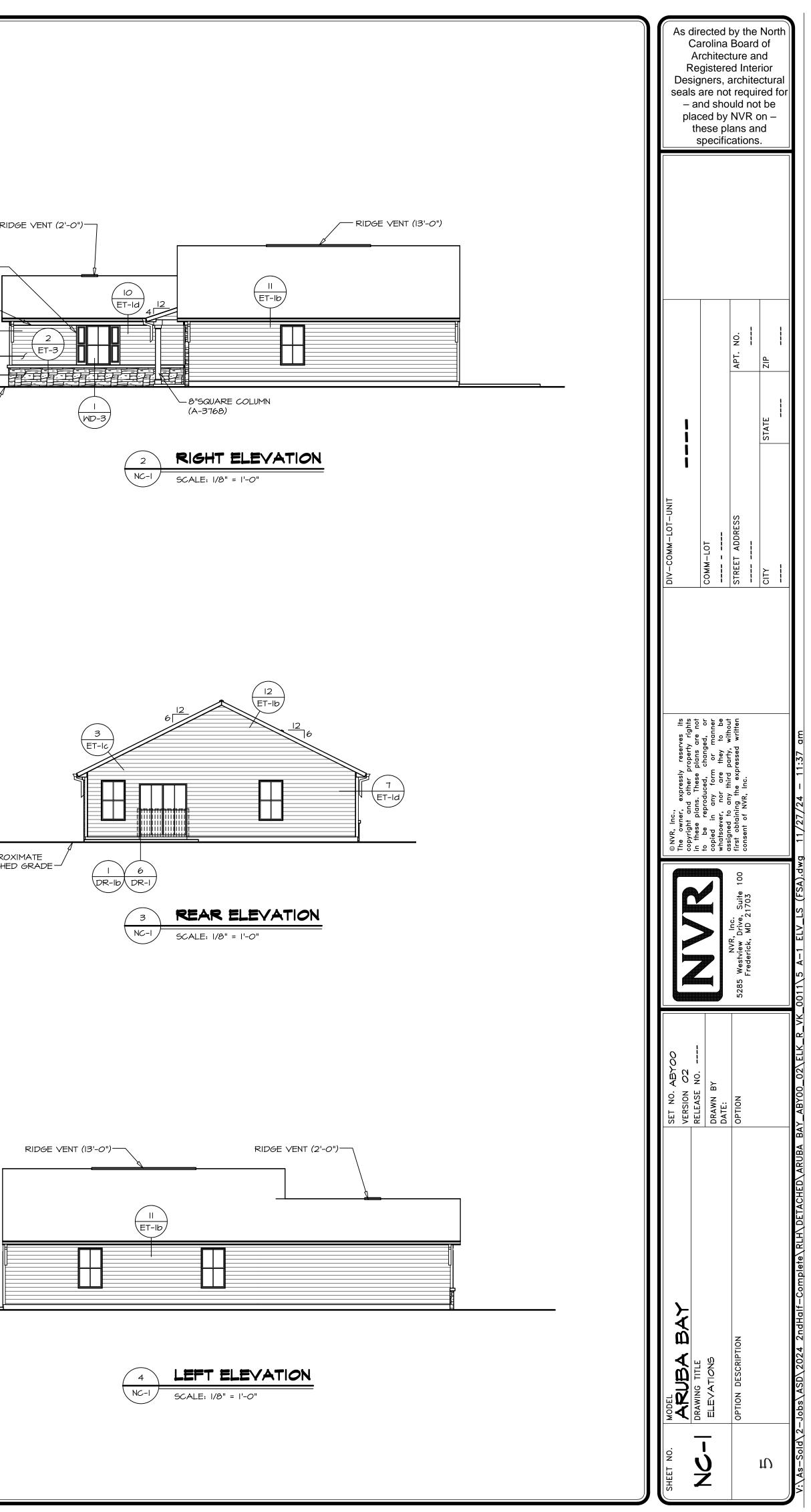


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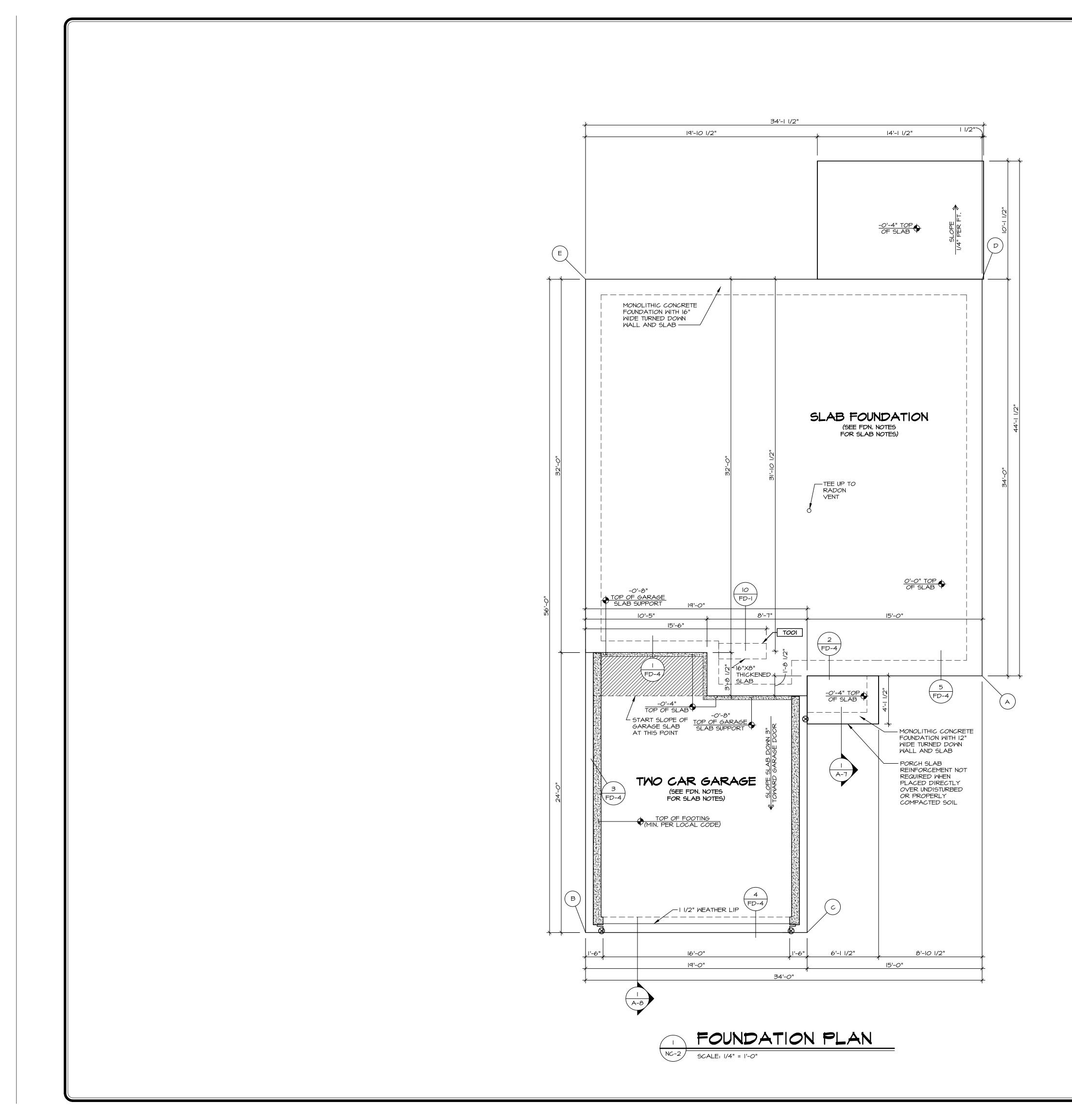
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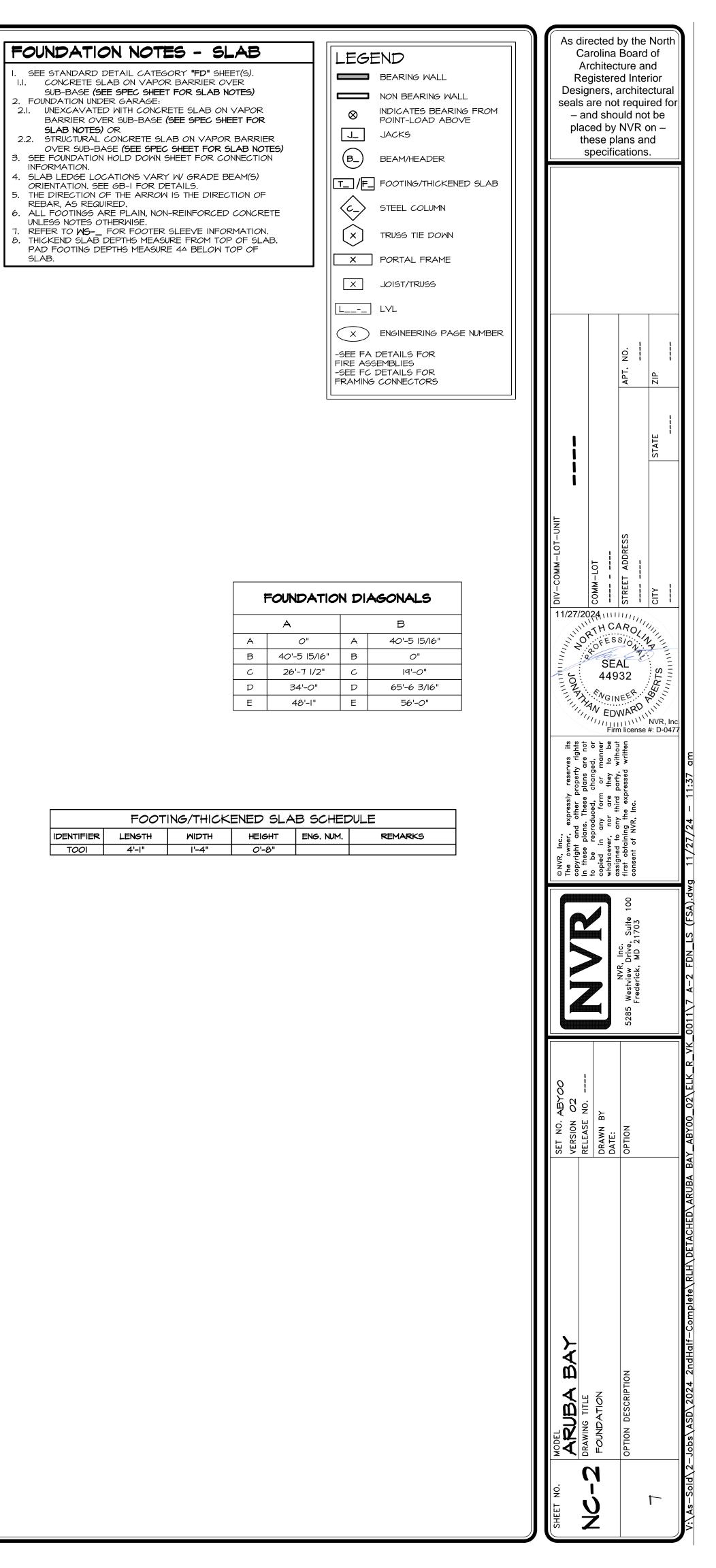


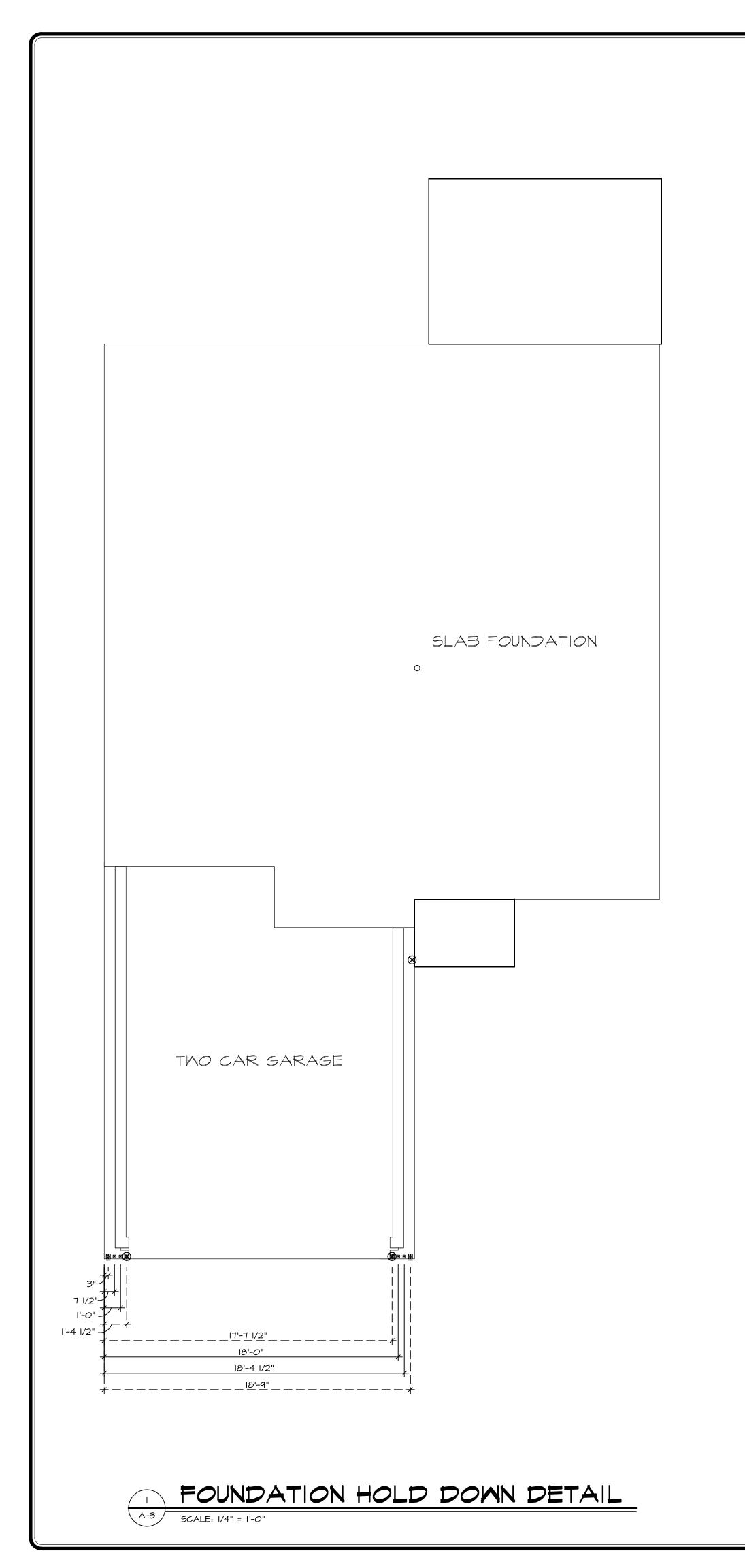
FRONT ELEVATION "K"

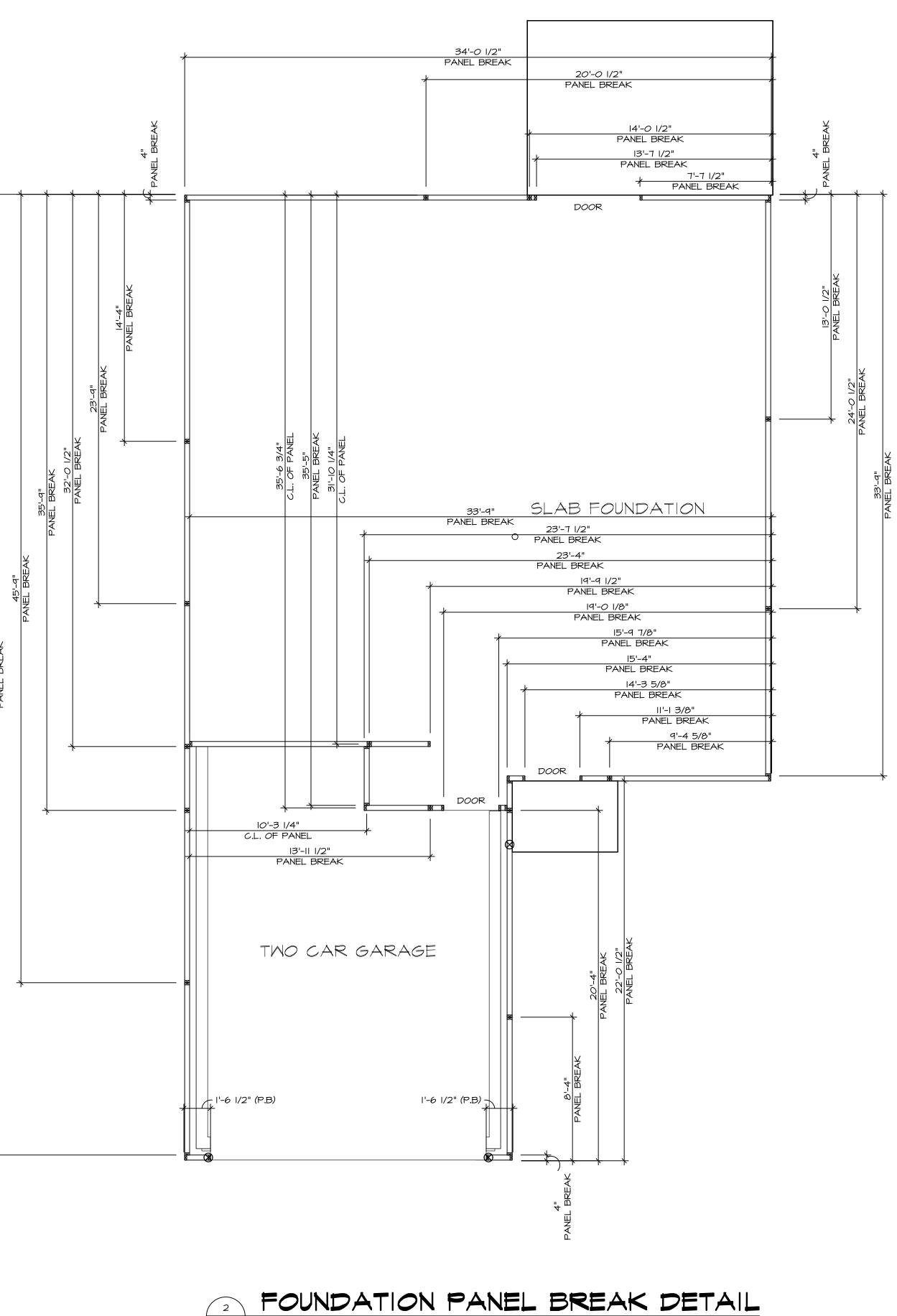


APPROXIMATE FINISHED GRADE –/





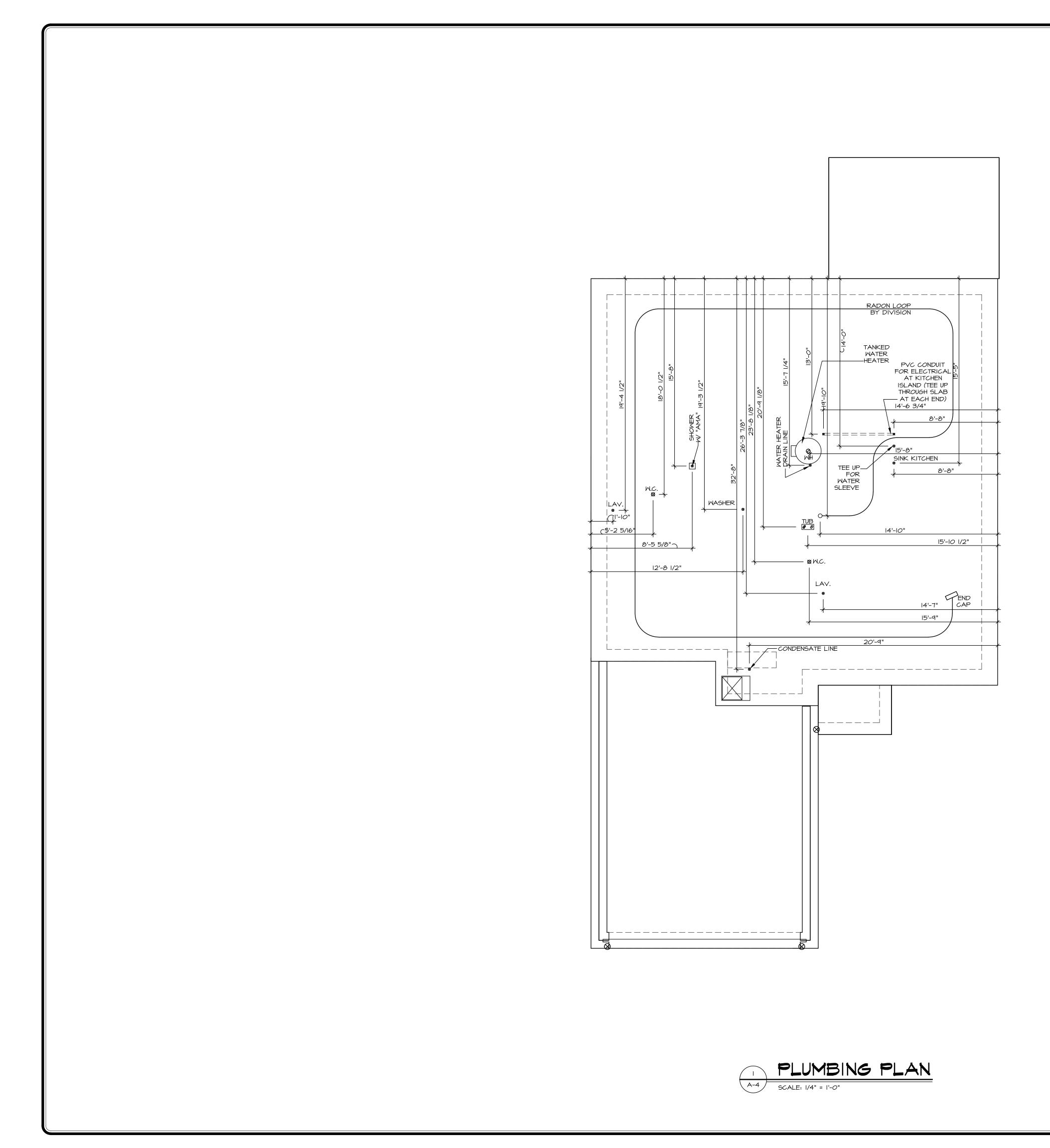




A-3 SCALE: 1/4" = 1'-0"

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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.						
<u>≤  2"</u> <u> </u>	I. ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FC-I FOR MORE INFORMATION ON ANCHOR DETAILS)						
STRAP	<ol> <li>STRAP:         <ul> <li>ON FOUNDATION USE (STHDI4)</li> <li>ON FLOOR SYSTEM USE (STHDI4RJ)</li> </ul> </li> <li>ALL OTHER HOLD DOWN SEE DETAIL (WB-I, 2)         <ul> <li>FOR MORE INFORMATION.</li> <li>STRAP LOCATION ON PLANS <u>SHOWN BY</u> <u>DASHED DIMENSION</u> TO CENTER OF STUDS</li> </ul> </li> </ol>						
BOLT Mo D	<ol> <li>I. THREADED ROD</li> <li>2. ALL OTHER HOLD DOWN SEE DETAIL (WB-I, 2) FOR MORE INFORMATION.</li> <li>3. BOLT LOCATION ON PLANS <u>SHOWN BY SOLID</u> <u>DIMENSION</u> TO CENTER OF BOLT</li> </ol>						



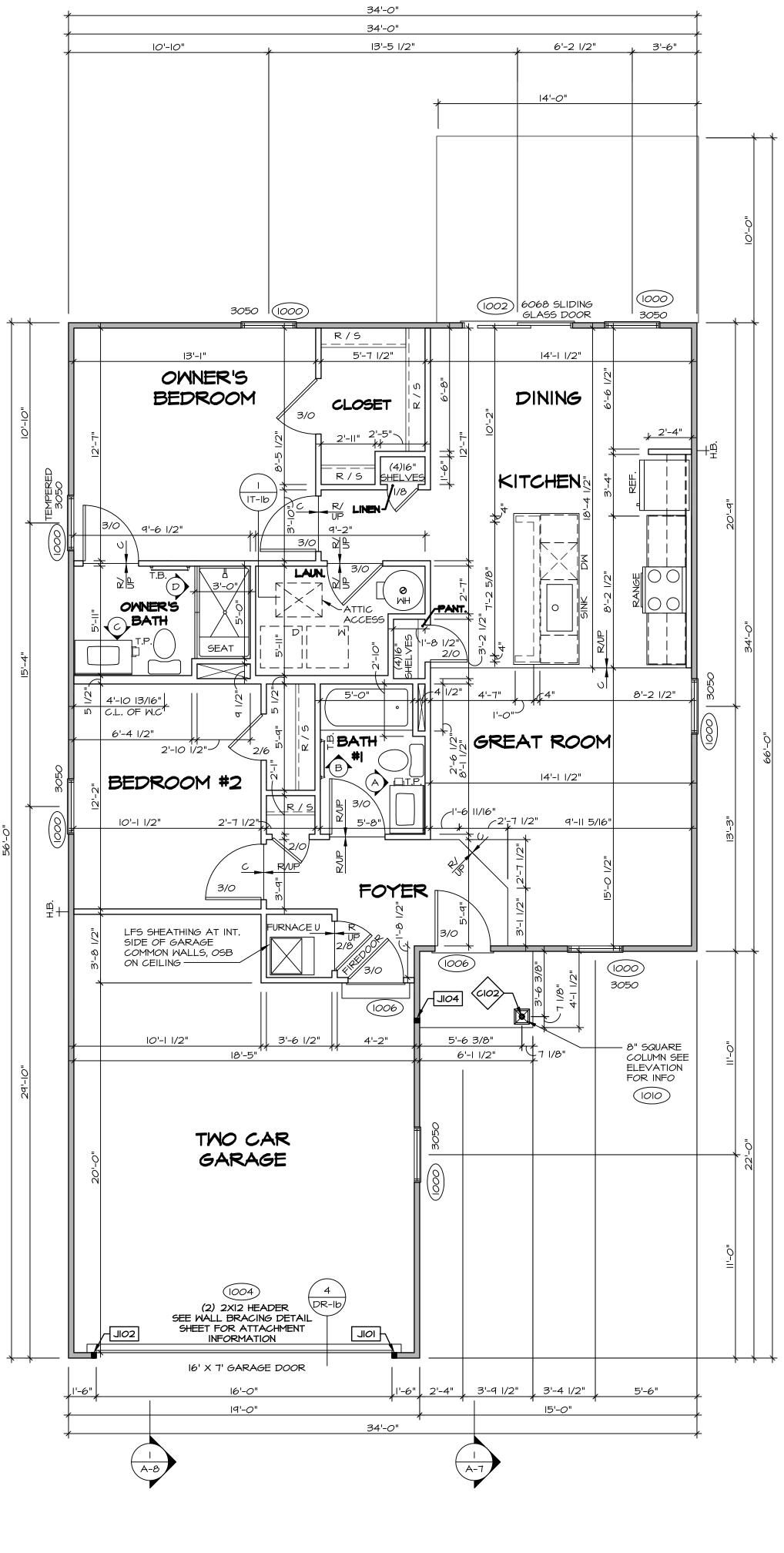


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ADDEL SET NO. ABYOO ARUBA BAY VERSION 02 BELEASE NO	DRAWN BY DATE:	OPTION DESCRIPTION			C:\NVR\Solves\RLH_VK_0011\Sheets\Lot Specific\A-4 PLMG_LS.dwg 11/21/24 - 2:46 pm
		OPTION DI	<u>0</u>		C:\NVR\Solves\RLH_VK

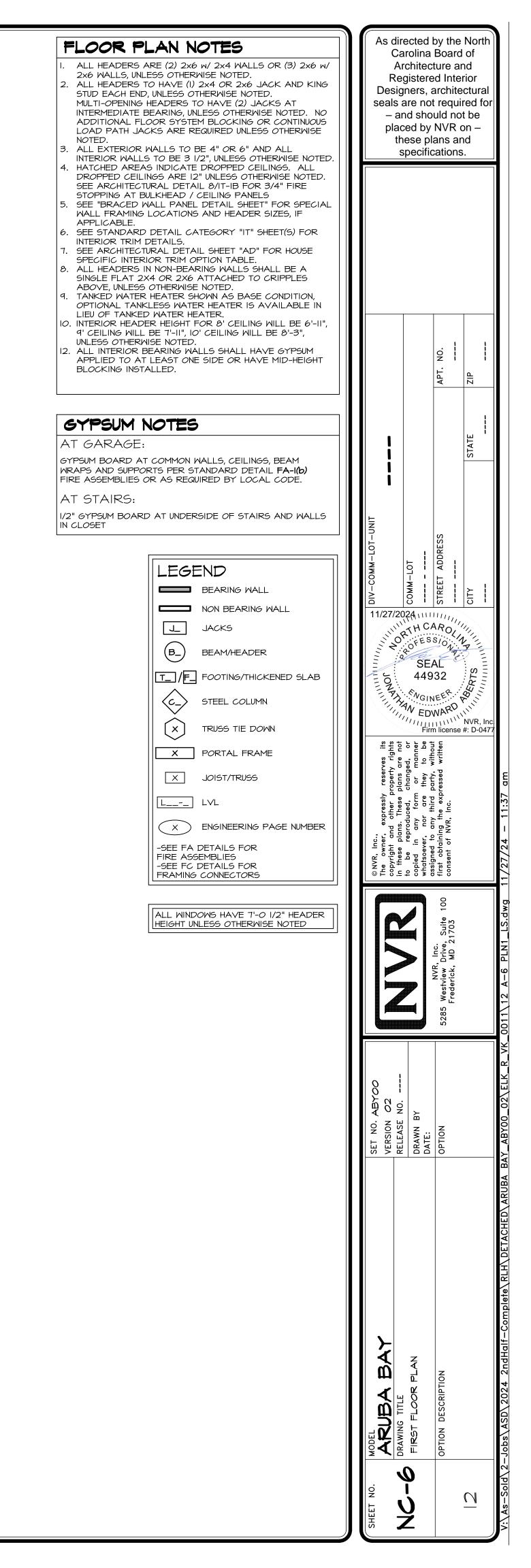
## INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISION

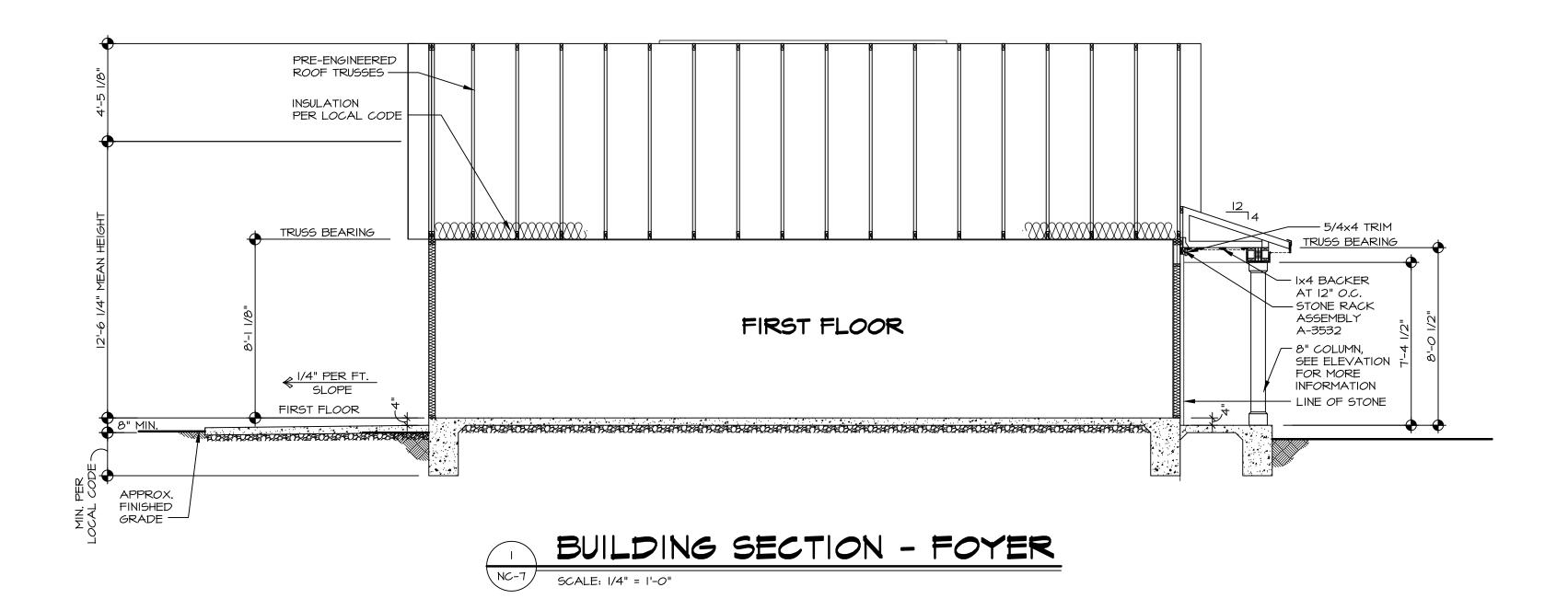
FIRST FLOOR JACK SCHEDULE					
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS		
IOIL	JACK - (2) 2X4 SPF STUD GRADE	1004			
JIO2	JACK - (2) 2X4 SPF STUD GRADE	1004			
JIO4	JACK - (2) 2X4 SPF STUD GRADE	1010			

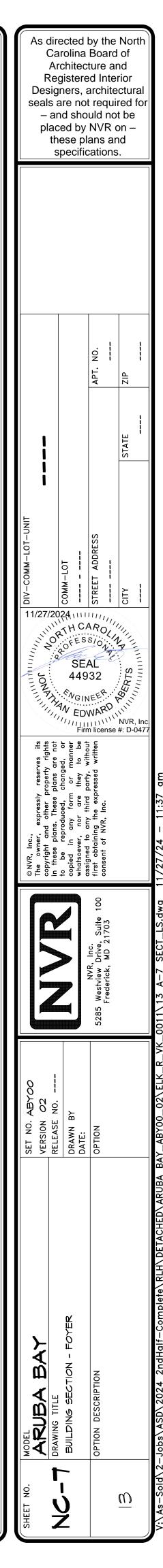
STEEL COLUMN SCHEDULE						
IDENTIFIER	STYLE	HEIGHT	ENG. NUM.	REMARKS		
C102	STANCHION PORCH - 3 IN DIA IIGA ADJ	7'-9 1/4"	1010			

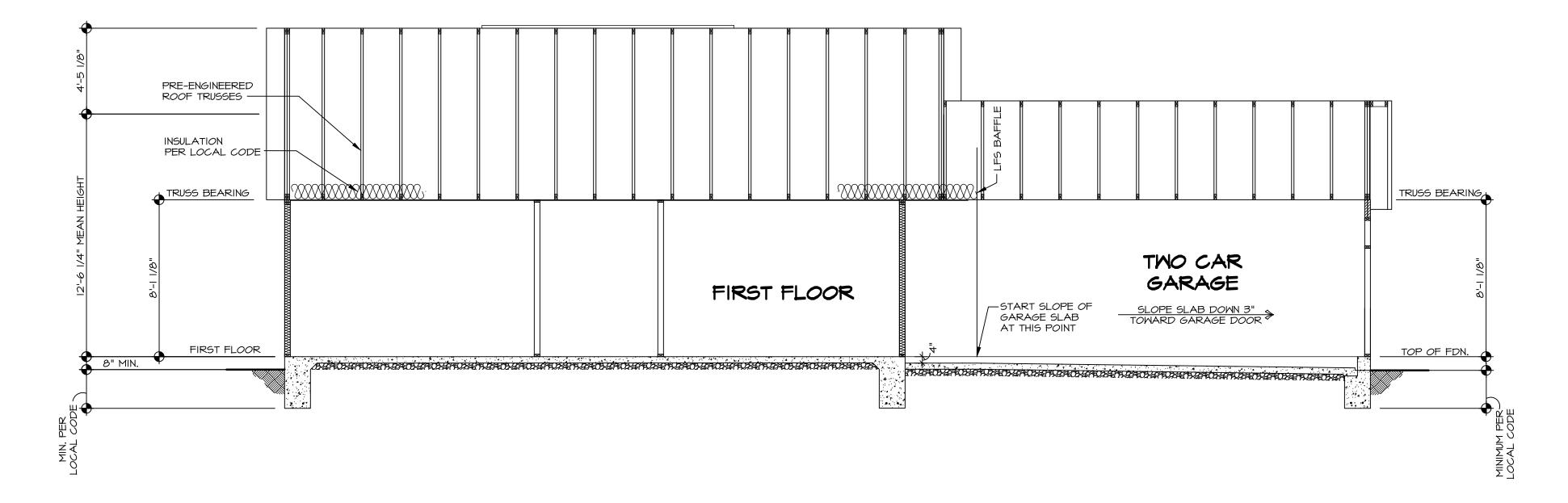




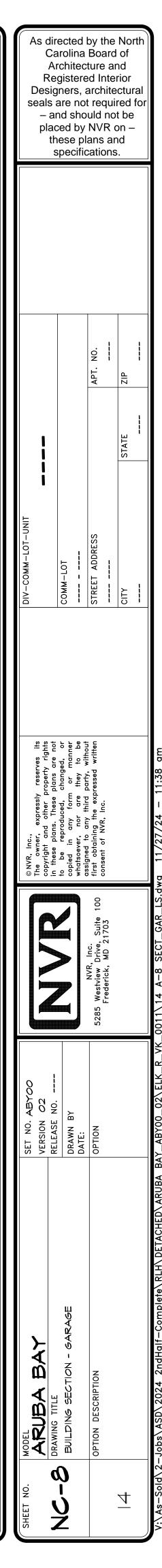


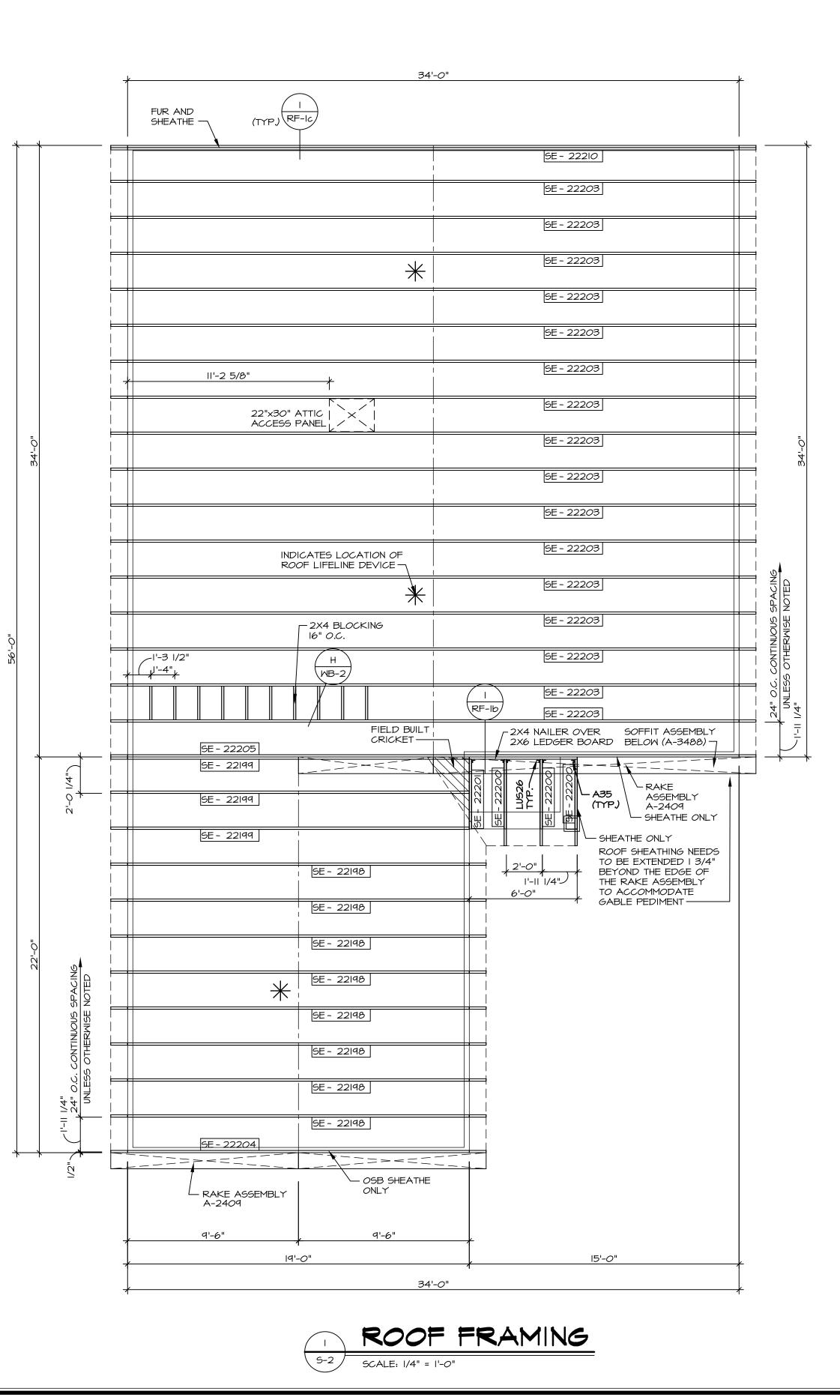












(6) ET-I PRE-BUILT PANELS -(B201)-— HUC28-2 5'-0 3/4" ↓|| 1/4" 6'-0" PORCH BEAM FRAMING PLAN

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

2 `

**∖**5-2∕

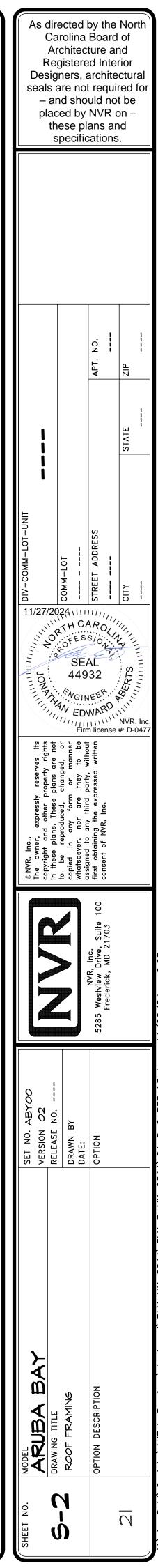
LVL PLY TO PLY FASTEN I.A - (2) PLY UP TO AND INCLUDING II ALT I 1/2" WIDE LVL FASTEN PLIES 2.A - (2) PLY 14" TO AND 18" TALL (INCL ALT I 1/2" WIDE LVL FASTEN PLIES 3.A - (2) PLY 20" TALL AND OVER: FAS LVL FASTEN PLIES W/ (5) ROWS I 4.A - (3) PLY UP TO AND INCLUDING II FROM EACH SIDE OR ALT | 1/2" WI EACH SIDE. 5.A - (3) PLY 14" TO AND 18" TALL (INC EACH SIDE OR ALT I 1/2" WIDE LY 6.A - (3) PLY 20" TALL AND OVER: FAS OR ALT I 1/2" WIDE LVL FASTEN 7.A - (4) PLY (ALL SIZES): FASTEN PLIE SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

TRUSS SCHEDULE							
SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/I2)	REMARKS			
SE	22198	19'-0"	6/12	-			
SE	22199	19'-0"	6/12	-			
SE	22200	3'-10 1/2"	4/12	-			
SE	22201	3'-10 1/2"	4/12	-			
SE	22203	34'-0"	6/12	-			
SE	22204	19'-0"	6/12	-			
SE	222 <i>0</i> 5	34'-0"	6/12	_			
SE	22210	34'-0"	6/12	-			

FIELD INSTALLED ROOF FRAMING BEAM/HEADER SCHEDULE							
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS			
B20I	BEAM BUILT 2X8 - 2 PLY RFF	6'-0"	1010				



ROOF FRAMING NOTES	
<ol> <li>REFER TO THE STANDARD DETAILS FOR THE FOLLOWING:</li> <li>I.I. TRUSS TIE-DOWNS (I/RF-I)</li> <li>I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I)</li> <li>I.3. VALLEY GABLE TRUSS BRACING (3/RF-I)</li> <li>I.4. GABLE BRACING (I/RF-Ic)</li> <li>I.5. TURN GABLE BRACING (7/RF-I)</li> <li>I.6. TRUSS LATERAL BRACING (2/RF-IC)</li> <li>I.7. LIFELINE ATTACHMENT (5/RF-I)</li> <li>I.8. FALL PROTECTION ON PLATFORM TRUSS (II/RF-I)</li> <li>I.8. FALL PROTECTION ON PLATFORM TRUSS (II/RF-I)</li> <li>I.6. TRUSS DOES NOT APPEAR ON THE TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED</li> <li>3. ALL FINISHED ROOF OVERHANGS ARE TO BE I2" FROM FRAMED WALL UNLESS OTHERWISE NOTED.</li> </ol>	LEGEND BEARING WALL NON BEARING WALL NON BEARING WALL NON BEARING FROM POINT-LOAD ABOVE J. JACKS B. BEAM/HEADER
S SCHEDULE: (WHERE APPLICABLE BASED ON LVL USAGE)	F_ PAD FOOTING
" TALL: FASTEN PLIES W/ (2) ROWS 16D NAILS AT 12" O.C. OR $\mathbb N$ (3) ROWS 12D NAILS AT 12"O.C.	STEEL COLUMN
61/E): FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C. OR N/ (4) ROWS 12D NAILS AT 12"O.C. EN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE	X PORTAL FRAME
NAILS AT 12"O.C. " TALL: FASTEN PLIES W/ (2) ROWS 16D NAILS AT 12" O.C. E LVL FASTEN PLIES W/ (3) ROWS 12D NAILS AT 12"O.C. FROM	X JOIST/TRUSS
GIVE): FASTEN PLIES W/ (3) ROWS IGD NAILS AT 12" O.C. FROM FASTEN PLIES W/ (4) ROWS I2D NAILS AT 12"O.C. FROM EACH SIDE. EN PLIES W/ (4) ROWS IGD NAILS AT 12" O.C. FROM EACH SIDE ES W/ (5) ROWS I2D NAILS AT 12"O.C. FROM EACH SIDE. W/ (2) ROWS I/2" DIAMETER A307 BOLTS AT 24" O.C.	L LVL X ENGINEERING PAGE NUMBER SEE FC DETAILS FOR FRAMING CONNECTORS



SE-22203

SE-222*0*5

SE-22210

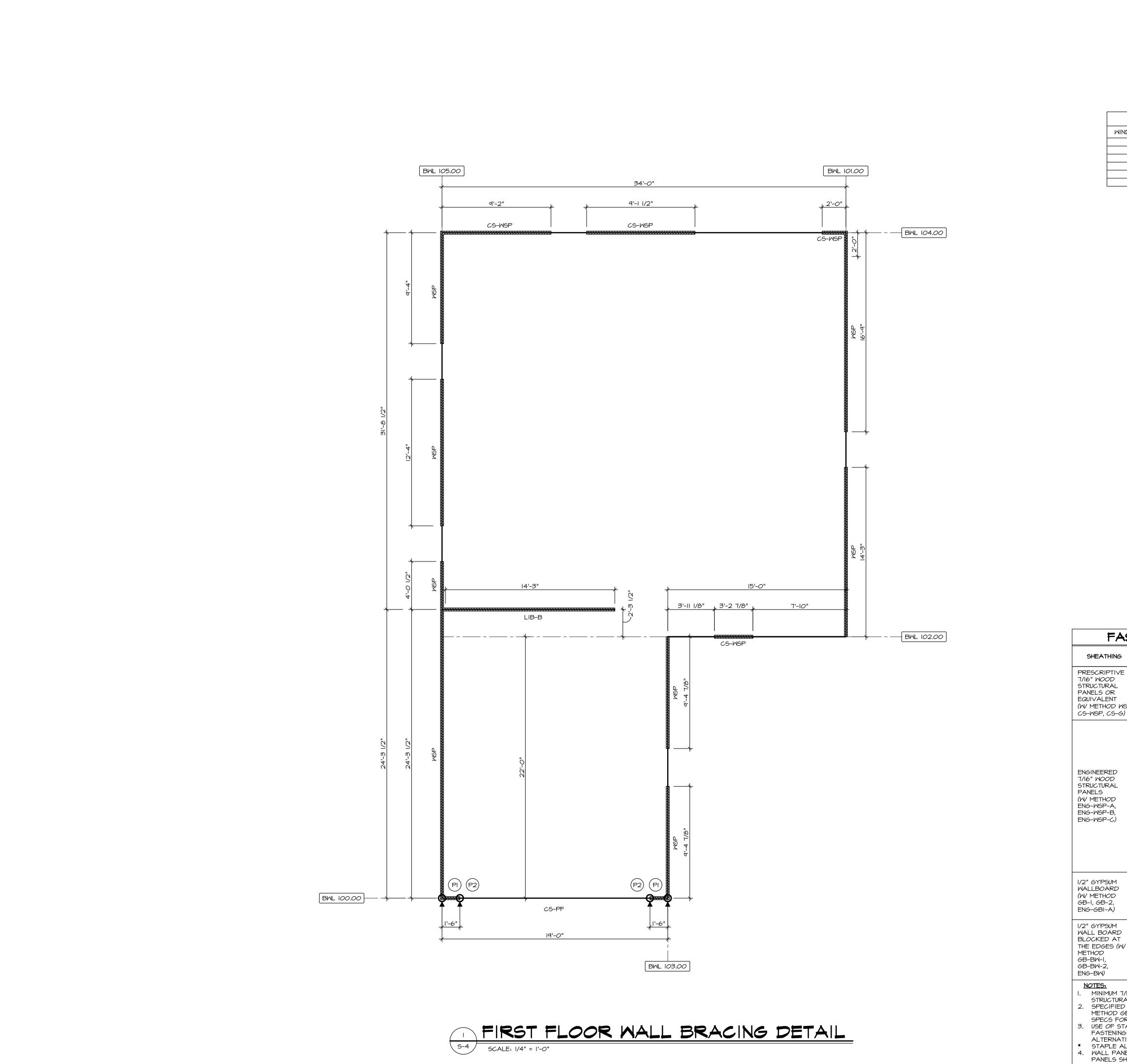


F Des seal –	As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for – and should not be placed by NVR on – these plans and specifications.						
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### TRUSS BRACING NOTES

- I. IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- REQUIRED.
   IX6 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.
   WEB "T" BRACE, DETAIL 3/RF-IC, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAX BE USED IN
- THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF IX6 LATERAL BRACING.
  DIAGONAL BRACING REQUIRED WHEN LATERAL
- BRACING IS REQUIRED (7/RF-1)

- 5. STUDDED GABLE BRACING DETAIL I/RF-Ic TO BE UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.
   6. 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.
   6. CUEATING (OR OR CYCLINA) PERMAGENAL 8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.



BRACED WALL LINE SCHEDULE						
IIND SPEED (ULT) IDENTIFIER REQUIRED (FT) ACTUAL (F				METHOD		
130 MPH	130 MPH BWL 100.00 3.85'		4.50'	CONTINUOUS (WITH GWB)		
130 MPH	BWL 101.00	6.94'	31.00'	WSP (WITH GWB)		
130 MPH	BWL 102.00	14.12'	17.49'	LIB		
130 MPH	BWL 103.00	5.47'	18.80' MSP (MITH GMB)			
130 MPH	MPH BWL 104.00 9.88' 20.29' CONTINUOUS (WITH		CONTINUOUS (WITHOUT GWB)			
130 MPH	BWL 105.00	5.31'	49.99'	WSP (WITH GWB)		

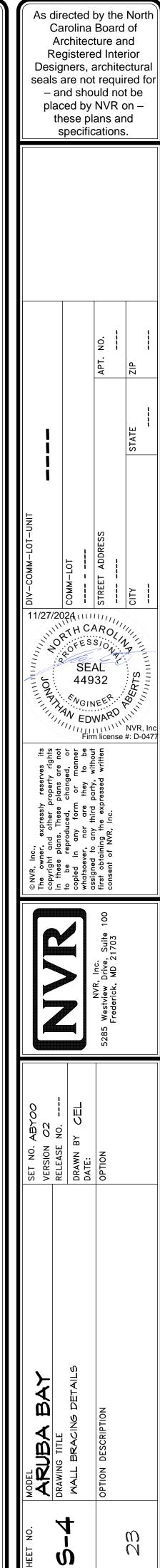
45	rening sched	JULE			
c	FASTENER	SPACING			
9	FASTENER	EDGES	FIELD		
Æ	8d COMMON NAILS	6" O.C.	6" O.C		
WSP, G)	ALTERNATIVE FASTENER I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" <i>O.</i> C.	6" O.C		
	A - 8d COMMON NAILS	4" <i>O</i> .C.	6" O.C		
	A - I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" <i>O</i> .C.	6" O.C		
	B - 8d COMMON NAILS*	3" <i>O</i> .C.	6" O.C		
	B - I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES	N/A	6" O.C		
	C - 8d COMMON NAILS* SHEATHING ON BOTH SIDES OF THE WALL	3" <i>O</i> .C.	6" O.C		
	C - I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES SHEATHING ON BOTH SIDES OF THE WALL	N⁄A	6" O.C		
	I-I/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	<b>О.С.</b>	J" O.C		
	CORROSION RESISTANT TYPE W I-1/4" DRYWALL SCREWS	<b>О.С.</b>	O.C "T		
2 r W/	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USE CORROSION RESISTANT TYPE W I-1/4" DRYWALL SCREWS	4" <i>O</i> .C.	12" <i>O</i> .C		

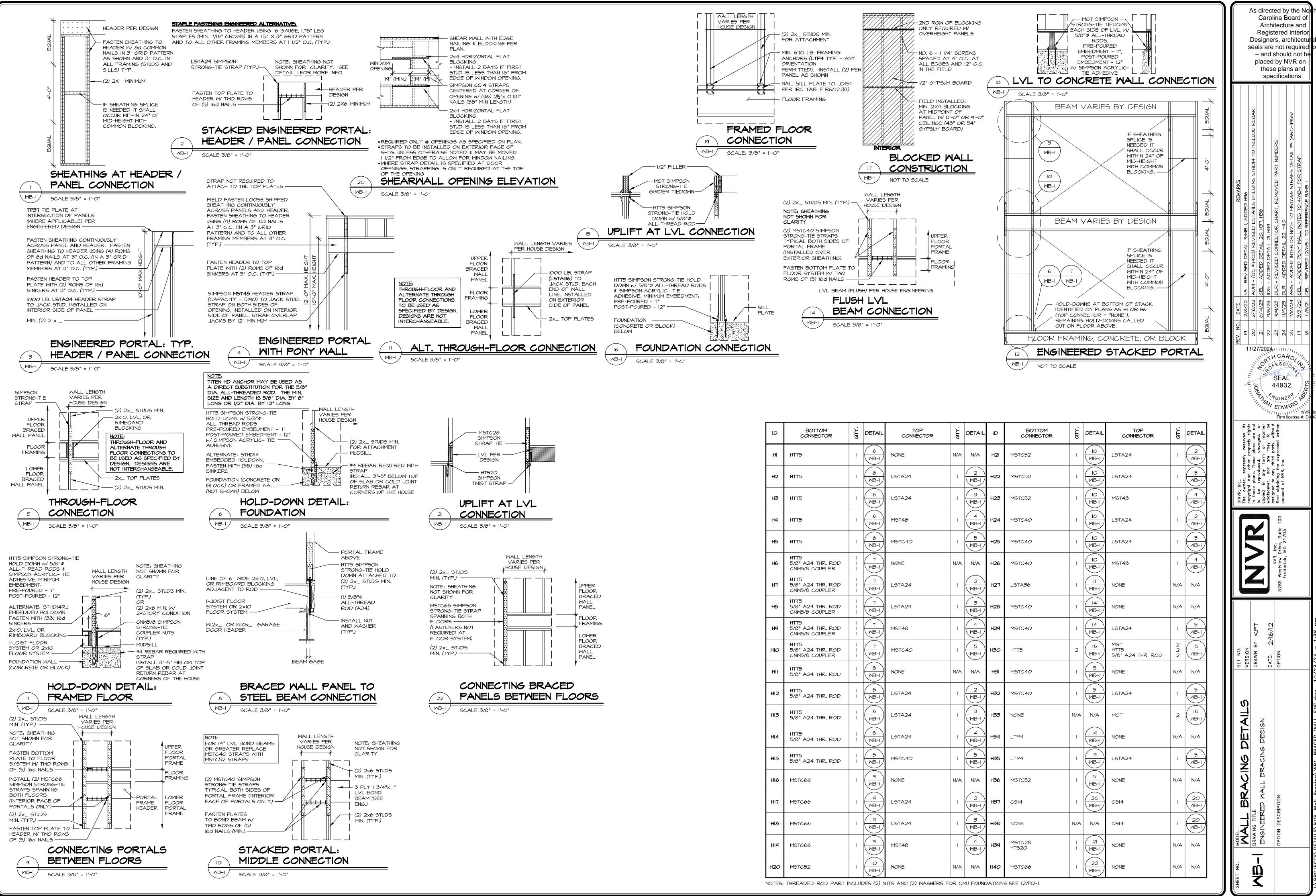
NOTES: I. MINIMUM 7/16" CROWN WIDTH FOR STAPLES IN WOOD STRUCTURAL PANEL. 2. SPECIFIED GYPSUM FASTENING REQUIRED ONLY WHERE METHOD GB IS IDENTIFIED. SEE PHASE SPECS FOR TYPICAL GYPSUM FASTENER SPACING. 3. USE OF STAPLES IN WOOD STRUCTURAL PANEL AS FASTENING METHOD ON WALLS PER ENGINEERED AL TERNATIVE

ASTENING METHOD ON WALLS PER ENGINEERED ALTERNATIVE. STAPLE ALTERNATIVE FOR USE IN FIELD ONLY WALL PANELS NOT IDENTIFIED AS BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH THE WSP/ENG-WSP-A METHOD.

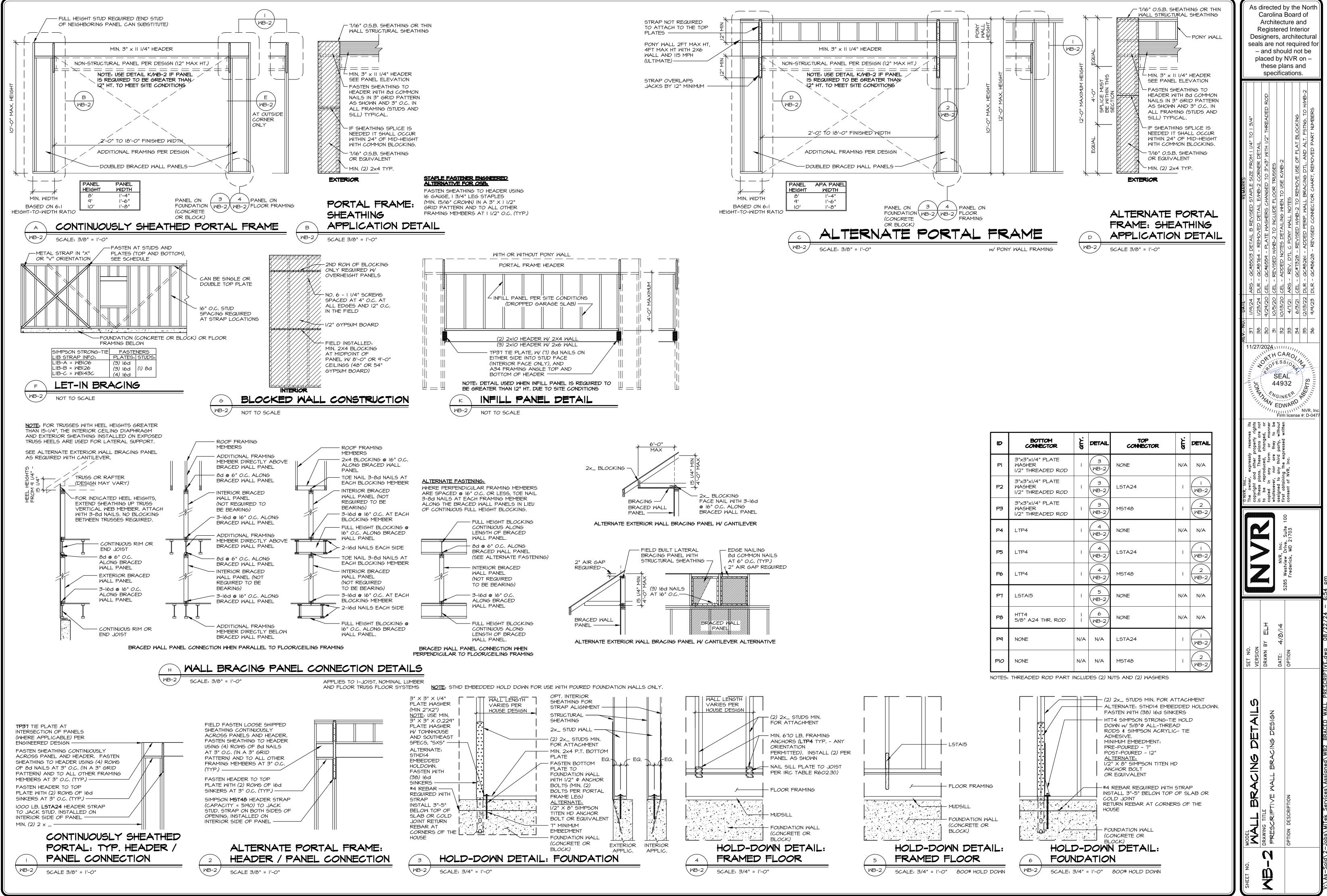
LEGEND	
BWL XXX.XX	BRACED WALL LINE I.D.
	BRACED WALL LINE
	HOUSE WALL
7///////.	BRACED WALL PANEL
X	ENGINEERING PAGE NUMBER
WSP	WOOD STRUCTURAL PANEL
GB	GYPSUM BOARD (1) SIDED OR (2) SIDED
GB-BW	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (I) SIDED OR (2) SIDED (SEE STANDARD DETAIL G/WB-2)
LIB	LET-IN BRACING (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
ENG-WSP-A	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'A' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-WSP-B	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'B' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-WSP-C	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING ON BOTH SIDES OF THE WALL TYPE 'C' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-PF	ENGINEERED DESIGN W/ PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL PAGE WB-I)
ENG-GBI-A	ENGINEERED DESIGN W/ (I) SIDED GYPSUM BOARD TYPE "A" FASTENING REQUIREMENTS
ENG-GBI-B	ENGINEERED DESIGN W/ (I) SIDED GYPSUM BOARD TYPE "B" FASTENING REQUIREMENTS
ENG-BW	ENGINEERED DESIGN W/ (I) SIDED GYPSUM BOARD W/ BLOCK WALL CONSTRUCTION (SEE STANDARD DETAIL IT/WB-I)
ю	<ul> <li>HOLD-DOWN:</li> <li>I. SEE SHEET WB-2 FOR "P_" INDICATOR SCHEDULE AND DETAILS</li> <li>2. SEE SHEET WB-I FOR "H_" INDICATOR SCHEDULE AND DETAILS</li> <li>3. ARROW INDICATES LOCATION.</li> </ul>
	ANALYZED UTILIZING A PRESCRIPTIVE LIANCE WITH INTERNATIONAL RESIDENTIAL

NOTES: HOUSE HAS BEEN ANALYZED UTILIZING A PRESCRIPTIVE METHOD IN COMPLIANCE WITH INTERNATIONAL RESIDENTIAL CODES (IRC) UNLESS OTHERWISE NOTED. ENGINEERED WALL LINES ARE IN COMPLIANCE WITH INTERNATIONAL BUILDING CODES (IBC).





D	BOTTOM CONNECTOR	ату.	DETAIL	TC CONNI		
н	HTT5	I	6 MB-I	NONE		
H2	HTT5	I	6 MB-I	LSTA24		
ΗB	HTT5	I	6 MB-I	LSTA24		
H4	HTT5	I	6 MB-I	MST48		
H5	HTT5	I	6 MB-I	MSTC40		
H6	HTT5 5/8" A24 THR. ROD CNW5/8 COUPLER		7 MB-I	NONE		
H7	HTT5 5/8" A24 THR. ROD CNW5/8 COUPLER		7 MB-I	LSTA24		
HØ	HTT5 5/8" A24 THR. ROD CNW5/8 COUPLER		7 MB-1	LSTA24		
Ha	HTT5 5/8" A24 THR. ROD CNW5/8 COUPLER		7 MB-I	MST48		
HIO	HTT5 5/8" A24 THR. ROD CNW5/8 COUPLER		7 MB-I	MSTC40		
HII	HTT5 5/8" A24 THR. ROD		B MB-I	NONE		
HI2	HTT5 5/8" A24 THR. ROD		B MB-I	LSTA24		
HI3	HTT5 5/8" A24 THR. ROD		B MB-I	LSTA24		
HI4	HTT5 5/8" A24 THR. ROD		B MB-I	LSTA24		
HI5	HTT5 5/8" A24 THR. ROD		& MB-I	MSTC40		
HI6	MSTC66	1	q MB-I	NONE		
ніт	MSTC66	1	q MB-I	LSTA24		
HIB	MSTC66	I	q MB-I	LSTA24		
HIA	MSTC66	1	q WB-I	MST48		
H20	MSTC52	I	IO MB-I	NONE		
NOTES: THREADED ROD PART INCLUDES (2) NUTS AND (2)						



ID	BOTTOM CONNECTOR	<u>बा</u> र.	DETAIL	top Connector	बा≺.	DETAIL
PI	3"x3"xI/4" PLATE WASHER I/2" THREADED R <i>O</i> D	I	B-2	NONE	N/A	N/A
P2	3"x3"xI/4" PLATE WASHER I/2" THREADED R <i>O</i> D	Ι	B-2	LSTA24	I	I MB-2
P3	3"x3"xI/4" PLATE WASHER I/2" THREADED ROD	I	3 WB-2	MST48	I	2 WB-2
P4	LTP4	I	4 WB-2	NONE	N/A	N/A
P5	LTP4	I	4 WB-2	LSTA24	I	I MB-2
P6	LTP4	I	4 WB-2	MST48	I	2 MB-2
ΡΊ	LSTAI5	I	5 XB-2	NONE	N/A	N/A
P8	HTT4 5/8" A24 THR. ROD		6 WB-2	NONE	N/A	N/A
Pq	NONE	N/A	N/A	LSTA24	I	I WB-2
PIO	NONE	N/A	N/A	MST48	I	2 WB-2