NOTICE TO CONTRACT All construction must comply with currer and is subject to field inspection and ve	nt NC Building Codes	
APPROVED Limited building only review Permit holder responsible for	1.6	
full compliance with the code	Labetha	Harnett
04/22/2021	U	NORTH CAROLINA
•	Ballytha	COUNTY

ASPEN

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SPEC SHEET ROOF VENT AND CALCULATION SHEET	55-I CA-I											AD-I DR-I
ELEVATIONS	4											DR-I
FOUNDATIONS FOUNDATION HOLD DOWNS	5 6											ET-lb
PLUMBING	7											ET-la
FIRST FLOOR PLAN SECOND FLOOR PLAN	9 10				1 1							F-lb
BUILDING SECTIONS	11/12											FA-Ib
SECOND FLOOR FRAMING	20											FC-I
ROOF FRAMING TRUSS BRACING	2l 22				1 1							FC-4
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NVR, Inc. 5285 Westview Drive, Suite 100 Frederick, MD 21703

TOTAL SQ. FT. 560 SF 560 SF

TOTAL SQ. FT. 880 SF 880 SF

TOTAL SQ. FT. 400 SF 400 SF

TOTAL 5Q. FT. 560 SF 880 SF 1440 SF

FIRST FLOOR SQUARE FOR	OTAGE
DESCRIPTION	TOTAL S
IST FLOOR (BASE SF)	560 9
	560 9
SECOND FLOOR SQUARE FO	OOTAGE
DESCRIPTION	TOTAL S
2ND FLOOR (BASE SF)	880 9
	880 9
CARACE COURSE FOOT	ACE
GARAGE SQUARE FOOT DESCRIPTION	TOTAL 5
TWO CAR FRONT ENTRY GARAGE	400 s
THE OTHER ENTER OF THE	400 9
TOTAL FINISHED SQUARE FO	ı
DESCRIPTION	TOTAL 5
IST FLOOR (BASE SF)	560 9
2ND FLOOR (BASE SF)	880 9
	1440 :
I.	

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GENERAL

- These plans and specifications are the sole property of NVR. Any unauthorized use of these plans without the written consent of NVR is prohibited.
- 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

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 2017 w/ NC Amendments, NCEC 2018, NCFPC 2018

2. Use Group: R-3

Section 301.1.3.

3. Constr. Type: V-B 4. Max. Stories: 3

ENERGY AND MECHANICAL

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
3	<i>0.3</i> 5	0.30	38	15 / 19	19	5/15	NA:	5/15
4	0.35	0.30	38	15 / 14	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 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 3015

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
	- IO# 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)

- 10# 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.5.F. (Dead)

- 30# P.S.F. (Live) Habitable Attics - Areas up to 130 mph ultimate wind speed per Trusses Table R301.2(4)

- Exposure category 'B' - Areas up to 130 mph ultimate wind speed per Walls Table R301.2(4)

Vult 115 mph 130 mph
Vasa 89 mph 101 mph Note: Linear interpolation between contour lines permitted.

- 40# P.S.F. (Live) - IO# P.S.F. (Dead) Allowable deflection of structural members per IRC Table R301.7

<u>Design Criteria</u>

Design Codes National Design specification for Wood Construction by National Forest

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 Spruce-Pine-Fir, Stud Grade Southern Pine (KD-19), No. 1 Grade

2x10 Hem-Fir (KD-19), No. 2 Grade or better (MCLIB & 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. 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 minimum 2,500 PSI per Table R402.2.
- 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
- 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 parging from footing to top of finished grade. The parging 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. Non-structural garage slabs shall be nominal 3 1/2" thick. Structural garage slabs shall be nominal 4" thick. All garage slabs shall be 3,500 PSI air-entrained concrete on compacted / undisturbed soil per Table R402.2.
- 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 R407.2.
- 17. For masonry veneers:

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 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

moisture penetration behind the veneer. See NYR Flashing Details. 18. Porch slab and exterior concrete work shall be nominal 4" minimum #3500 air entrained

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

- concrete w/ 6x6 #10 W.W.M unless otherwise noted as specified by engineering. 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 requiréments of Section R404 are met.
- 21. Termite treatment provided below slabs or to framing members per R318.1

FOUNDATION WALL DESIGN 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)
		45	6'-0"	NOT REQUIRED	2- #4 BAR5 (f)
	₽"	45 -	7'-0"	NOT REGUIRED (d)	3- #4 BAR5 (dø)
	8	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (dø)
8'-O"			7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (dø)
<i>5-</i> 0		45	6'-O"	NOT REQUIRED	2- #4 BARS (F)
	lo"	40	7'-0"	NOT REQUIRED	2- #4 BARS (F)
	10	60	6'-0"	NOT REQUIRED	2- #4 BAR5 (f)
		80	T'-O"	NOT REQUIRED	2- #4 BARS (F)
		45	"ס-יד	NOT REQUIRED (d)	4- #4 BARS (dø)
	& "	40	8'-O"	#4 @ 19" O.C. (d)	4- #4 BARS (dø)
		4.0	7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (dø)
q'-0°		60	8'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (d,e)
, 0		24-	7'-0"	NOT REQUIRED	3- #4 BARS (g)
	10"	45	8' - 0"	NOT REQUIRED (d)	4- #4 BARS (dø)
		60	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d.e.)
		60	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
- 6. 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 R404.1.2(1).
- g. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

PLANS

- 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 egress 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'-0" 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.

above) or a ramp in accordance with Section R311.8.

- 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" aupsum 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 guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter per R312.1.3.
- 6. 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
- 9. Handralls 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 guard.
- IO. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per £703.4. See NVR Flashing Details.
- II. Wood framed walls assumed to be 2×4 stud construction unless otherwise noted on plans. Bearing walls shall have stude spaced at 16" o.c. maximum per Table R602.3(3) and Table R602.3(5).
- 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 Tupe W 1-1/4" drywall screws

5CF	SCREW FASTENING SCHEDULE										
MITH ADHESIVE											
Framina Spacina			Non-load-brg. walls								
16	16	24	24								
24	16	16	24								
	TIM	HOUT ADHESIVE									
Framing Spacing	Ceilings	Load-brg. walls	Non-load-brq. walls								
16	12	16	16								
24	12	12	12								
			<u> </u>								

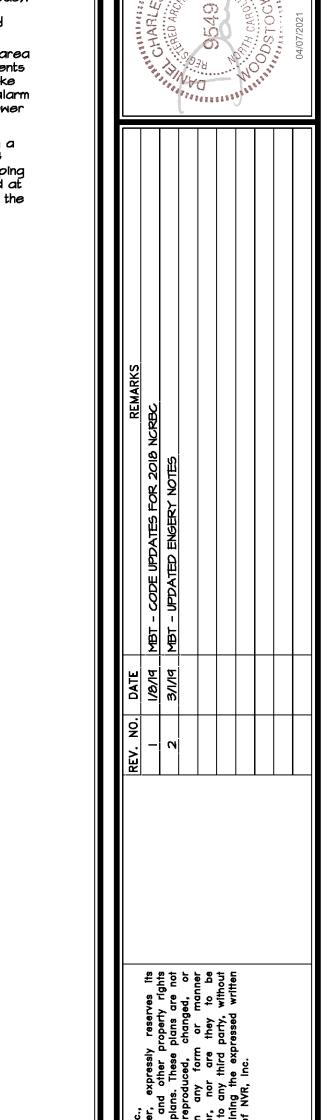
- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .098 diameter shanks with annular ring or acceptable equivalent and comply with ASTM C514.
- For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .098 diameter shanks.
- 17. Garages shall be completely separated from the residence 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 above 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.. 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.I.
- 16. 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.I.I Exception #I.
- 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 R302.11. 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.**I
- 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International
- 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 I 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 R3122.
- 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 aupsum 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. 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.

Townhouse construction (R302.2.5):

- 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 glue, glued and nailed on joists to meet. "American Plywood Association" approved glued floor

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 celling 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.



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NVR - Business Use Only

Varsios 4 0 (Fast Stream) (ta/26/79)

ROOF VENTILATION CALCULATIONS

HOUSE NAME
HOUSE VERSION
PRODUCT LINE

SOFFIT:
S.9.3 spin of vent per if
NO
VENTILATION VALUES

ROX / GABLE VENT:
SS spin of vent per unit

YES (any)	(any) VENT OK	No action regid:
NO YES	OK VENT OK	No action regid.
 NO YES	LOW FAIL	increase ridge
 NO YES	HIGH FAIL	Decrease ridge
NO NO	(any) PAIL	increase total vent

							*** * *** * * *		* A A EX						
							ELEVA	L' A' MOIT	£K"						
		Requireds	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 AV150	OK V/300	96 went at	40%-50%	
Location / Options	(nq in)	(sq in)	(sq in)	(8)	(sq in)	((f)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK?	Notes
Main House Roof	126720	844.80	422,40	70.58	698.54	10	180.00			878.54	XES		N/A		
Sarage Roof	10000	76.80	38.40	71-0	198.00		0.00			198.00	YES	N/A	* 7e	N/A	
mermbe 14001	11520	70,00	38.40	20	130.00		0.00			2 PO UU			*****	18/3%	
Werneye 18001	44244	[/U,aU	35.40	20	159.00		0.00			270.00	(L)			18777	
acraga 1001	1,234	I	38.40		158.003			TION "B !	& L"	199.0V.	(15-2)				
ACT NO.	4.2344	Reguired	Required:	20	158.00	31015 31015 31015 3101			& L ^{III}	179.00	(A/300	A/300	
30105	Area (A)			Soffit	Soffit Vent	R∤dge		TION "B !		TOTAL	OK A/150	(JK A/300			
tocation / Options	NI - AUGUSTA A	Required	Required:			Ridge	ELEVA	TION "B &	Lower Box.	A. A			A/300	A/300	Notes
	Area (A)	Required: A/150 (5g in)	Required: A/300 (19 in)	Soffit (0)	Soffit Vent	Ridge	ELEVA	TION "B & Upper Box / Gable Vent (gty)	Lower Box Vent	TOTAL			A/300 % vent at ridge	A/386 40%-50%	Notes

NVR - Business Use Only

NVR

Version 2.0 (Last Revised 04/26/19)

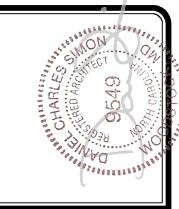
HOUSE \	VOLUME	CALCUL	ATIONS	>	
HOUSE NAME	A	SPEN			
HOUSE VERSION	A	SP00-01		мирования в мирования описания	
PRODUCT LINE		YANHOMES		014000-000 NASANIA NASANIA ONI OSANIA NASANIA NASANIA NASANIA NASANIA NASANIA NASANIA NASANIA NASANIA NASANIA	

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	l "A"	
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Left side of the house	560.00	20.98	11751
Right side of the house	320.00	19.48	6235
Garage bump out from main house	80.00	8.83	706
		Total House Volume	18693

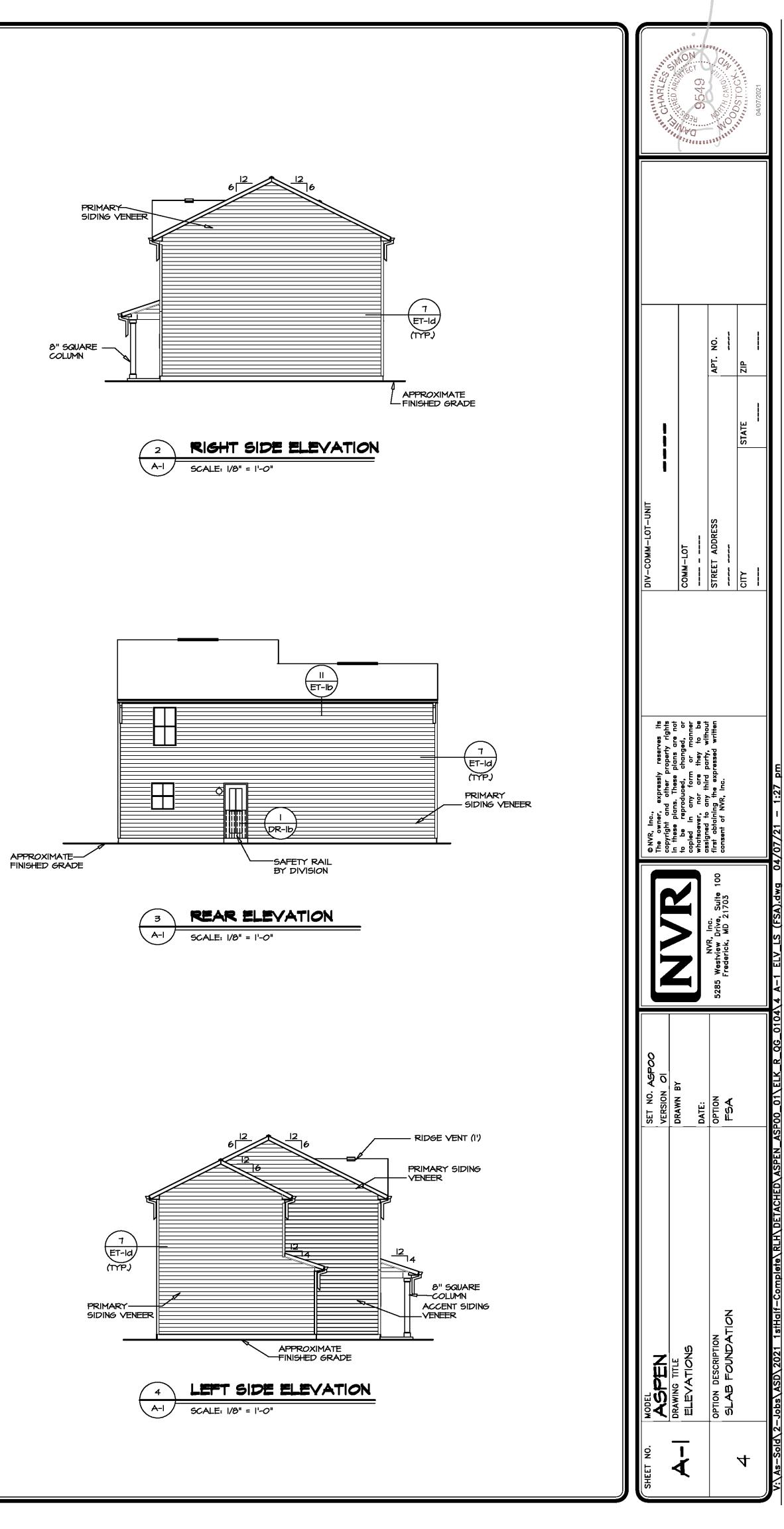
	ELEVATION "I	3, K, L"	
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Left side of the house	560.00	20.98	11751
Right side of the house	320.00	19.48	6235
Garage bump out from main house	80.00	8.83	706
Porch on front of house	24.00	8.83	212
		Total House Volume	18904

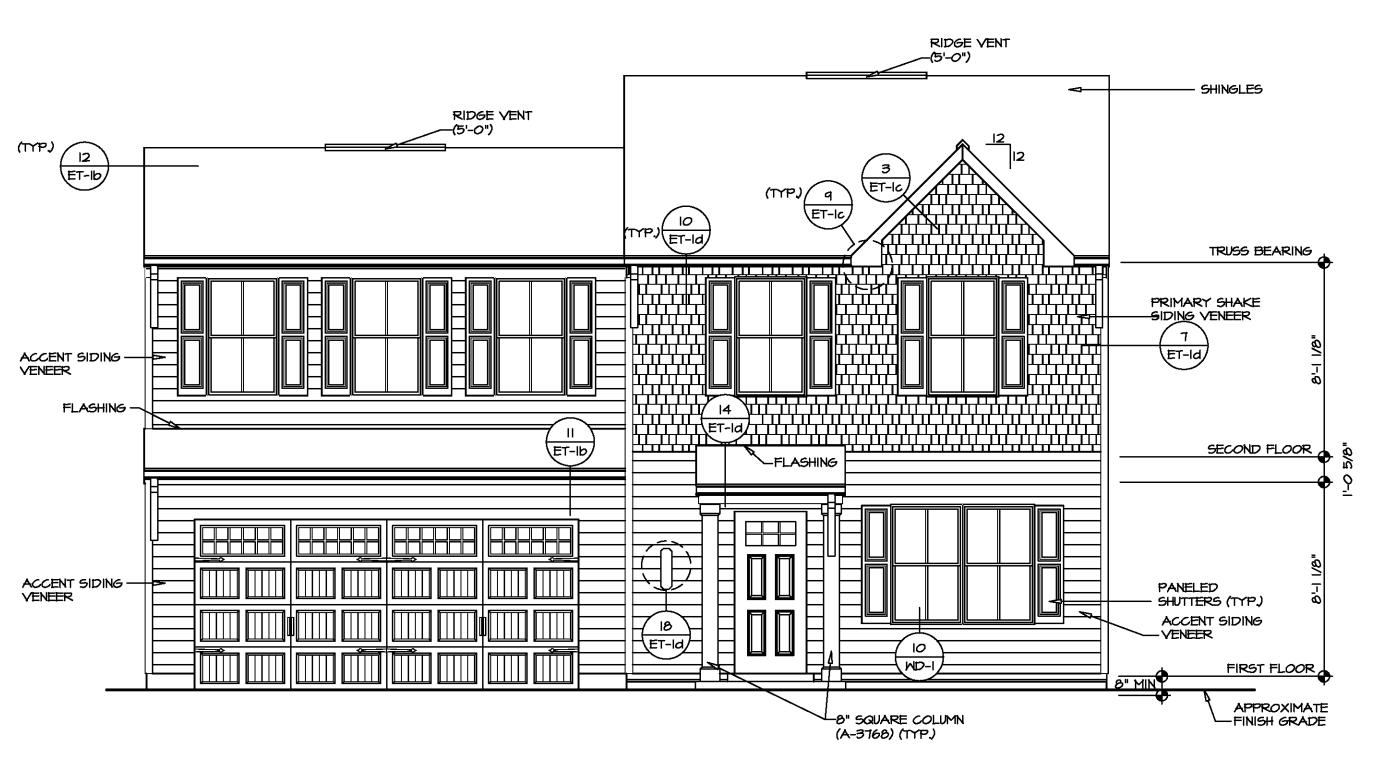
Additional areas of volu	ıme to be added	to total house vol	ume as needed
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Partial Front Porch "EPB" W/ Elevation	24.00	8.83	212
Full Basement "FBA"	560.00	8.61	4824
Crawl space "FCA"	560.00	0.80	448



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	1					STATE	!
	DIV-COMM-LOT-UNIT	COMM-LOT		STREET ADDRESS		CITY	-
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UKAWN BY	DATE: OPTION	721 - 11·16 ar
		04/06
		CALCS dwg
		Specific\CA-1
<u> </u>	CRIPTION	





FRONT ELEVATION "K"

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

		PAD FOO	DTING SCH	EDULE	
IDENTIFIER	LENGTH	MIDTH	HEIGHT	ENG. NUM.	REMARKS
FOOI	II'-8 I/2"	l'-4"	O'-8"	50001	
FOOI	II'-8 I/2"	l'-4"	O'-8"	50001	

ŧ	FOUNDATIO	N DI	AGONALS
	Α		В
A	0"	Α	40'-9 1/2"
Ð	40'-9 1/2"	В	0"
v	20'-0"	C	21'-6 1/2"
ם	48'-9 29/32"	D	20'-0"
E	28'-0"	E	44'-8 21/32"

FOUNDATION NOTES - SLAB

- I. FOUNDATION UNDER HABITABLE SPACE:
 I.I. CONCRETE SLAB ON 6 MIL VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) P. FOUNDATION UNDER GARAGE:
- 2.I. UNEXCAVATED WITH CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) OR
- 2.2. STRUCTURAL CONCRETE SLAB ON VAPOR BARRIER
 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, UNREINFORCED CONCRETE UNLESS NOTES OTHERWISE.

LEGEND

BEARING WALL

NON BEARING WALL

JACKS

BEAM/HEADER

PAD FOOTING

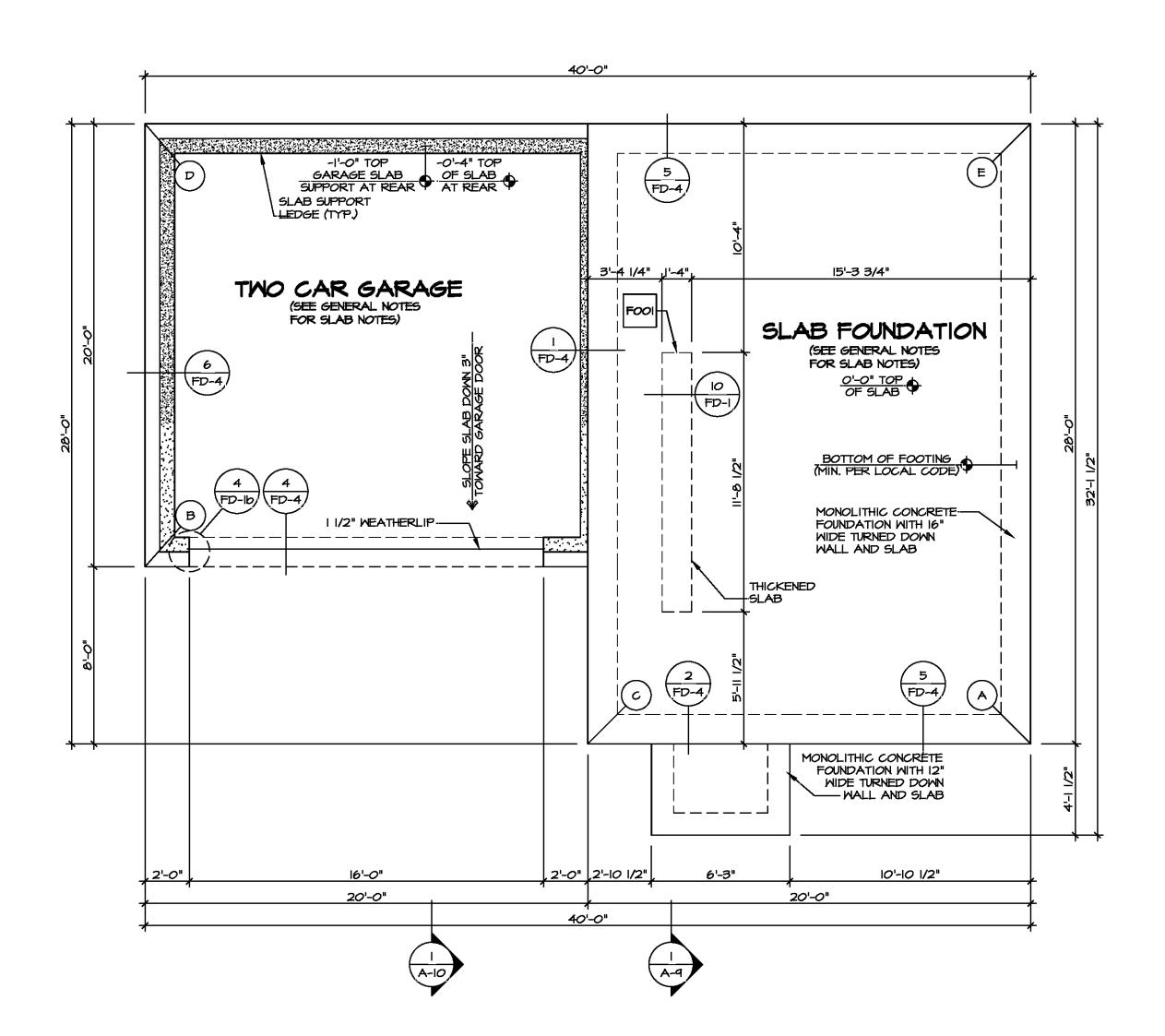
STEEL COLUMN

X TRUSS TIE DOWN X PORTAL FRAME

X JOIST/TRUSS ____ LVL

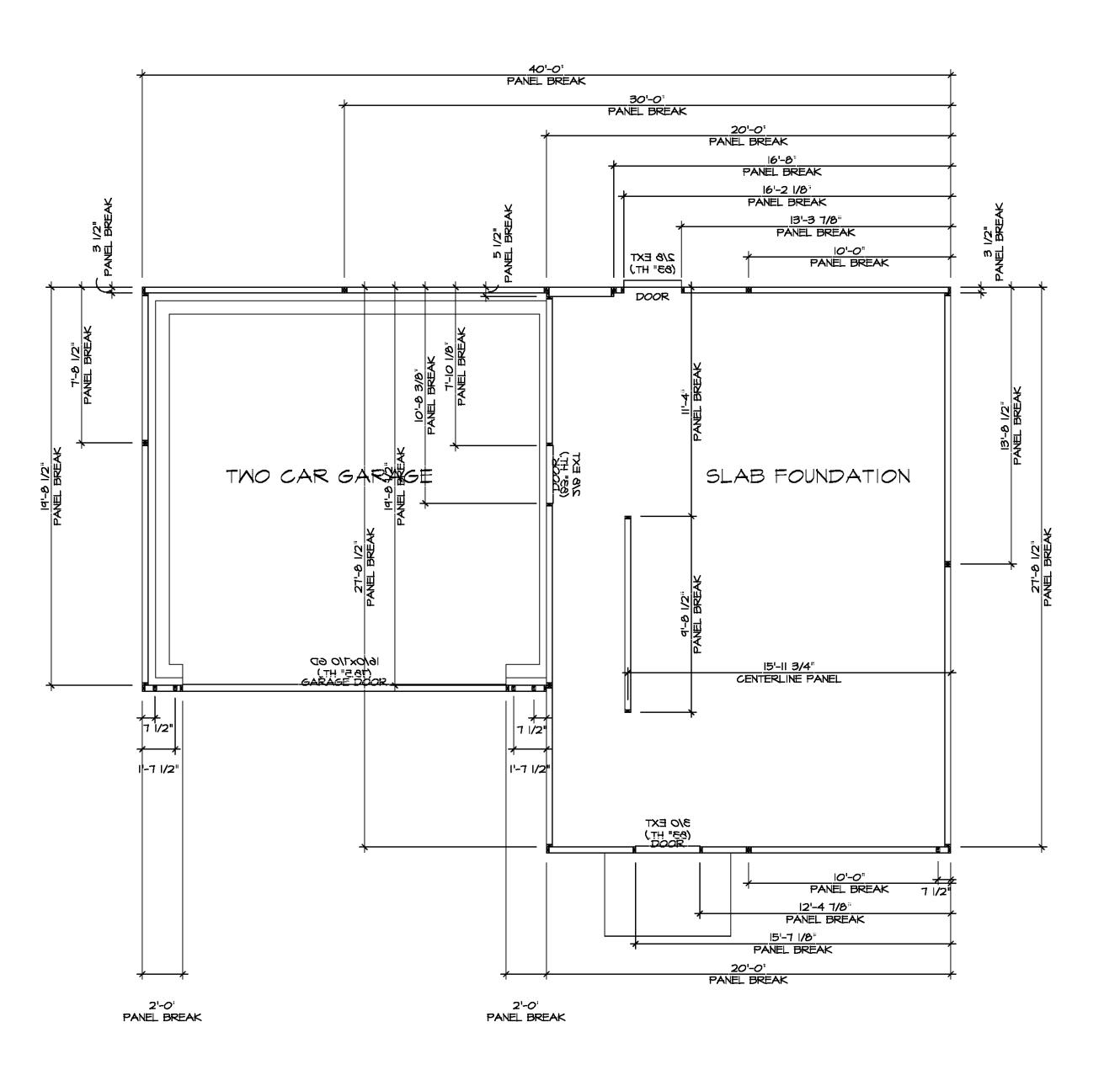
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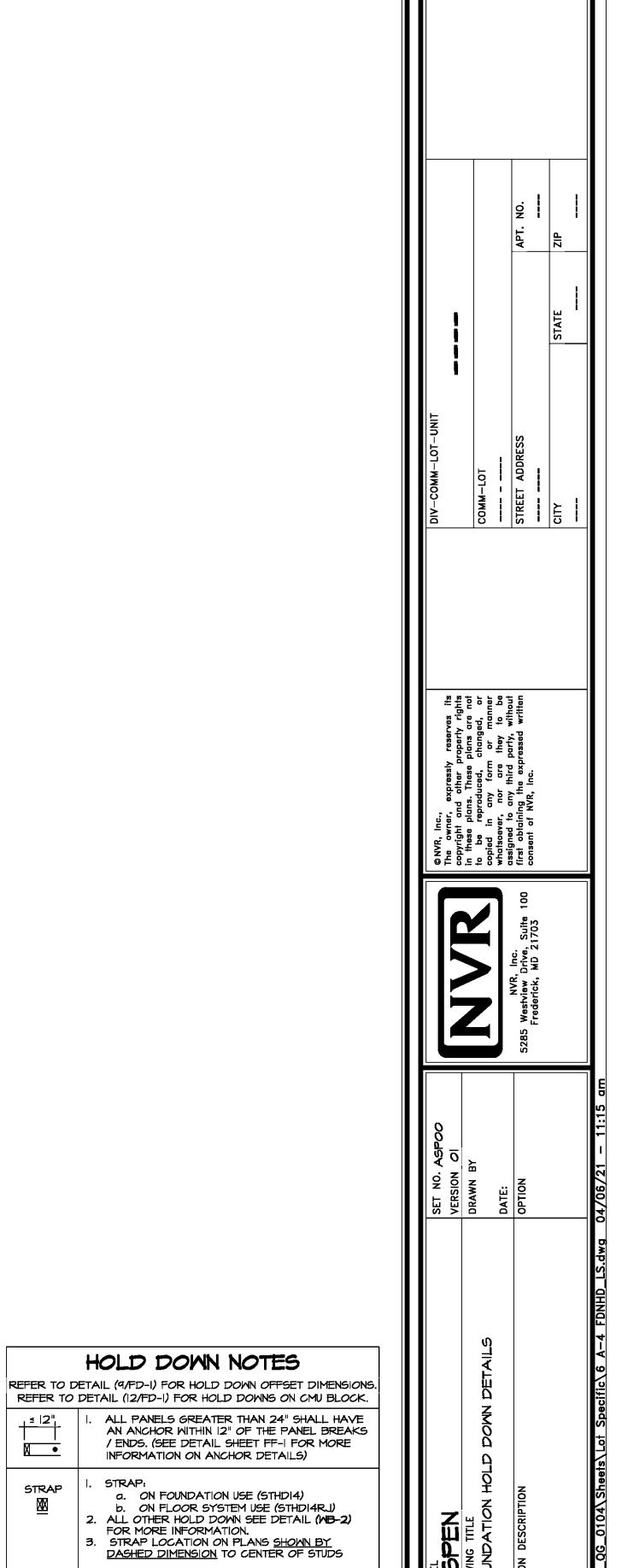
SEE FC DETAILS FOR FRAMING CONNECTORS





SHEET NO.	MODEL ASPEN	SET NO. ASPOO VERSION OI		© NVR, Inc., The owner, expressly reserves its	DIV-COMM-LOT-UNIT			CONTRACTOR CHARLES	CHAP
√ -₩	DRAWING TITLE FOUNDATION PLAN	DRAWN BY		in these plans. These plans are not to be reproduced, changed, or copied in any form manner wherever nor are they to be	COMM-LOT			WON TEST OF THE PARTY OF THE PA	V. 6.0377
	OPTION DESCRIPTION	DATE: OPTION	NVR, Inc. 5285 Westview Drive, Suite 100	assigned to any third party, without first obtaining the expressed written	STREET ADDRESS	APT. NO	NO.	111111	D MOE
	SLAB FOUNDATION	FSA	Frederick, MD 21703	Consent of NVK, Inc.	1			No. 1. 1.	ON THE CARO
w					CITY STA	STATE ZIP		14	
						!			04/07/2021
As-Sold\ 2	V:\ As-Sold\ 2-lobs\ ASD\ 2021 1stHalf-Complete\ RIH\ DETACHED\ ASPEN ASPOO 01\ FIK R OG 0104\ 5 A-3 FDN IS (FSA) dwa 04/07/21	SPEN ASPON 01/FIK R OG 0102	4/5 A-3 FDN IS (FSA) dwg 0	4/07/21 - 1:27 pm					





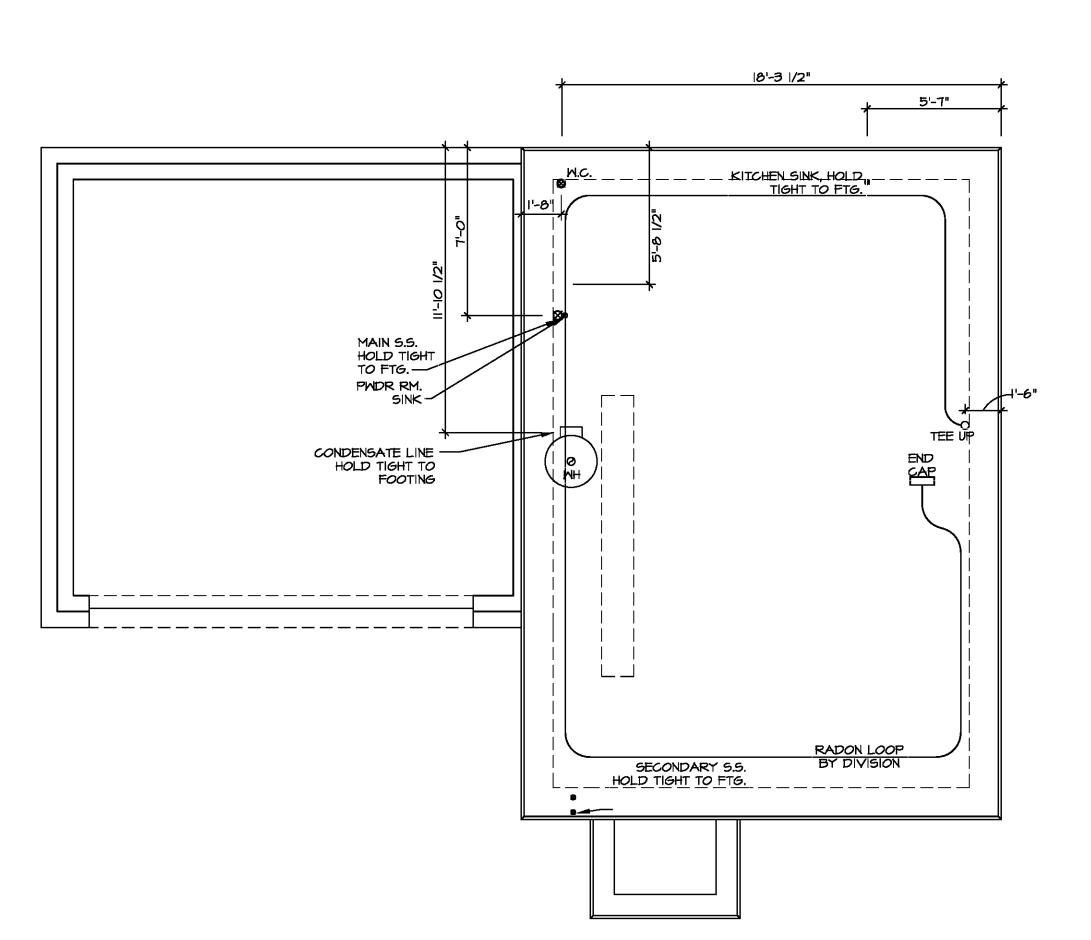
HOLD DOWN NOTES

5/6"\$\phi\$ THREADED ROD
 ALL OTHER HOLD DOWN SEE DETAIL (MB-2)
FOR MORE INFORMATION.
 BOLT LOCATION ON PLANS SHOWN BY SOLID DIMENSION TO CENTER OF BOLT

M ◆

BOLT

FOUNDATION HOLD DOWN DETAILS 5CALE: 1/4" = 1'-0"



RADON REMEDIATION
RADON LOOP:

- (4") PERFORATED HDPE "LOOP"

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

- LOOP TO BE SEPARATE FROM ANY DRAINTILE ELEMENTS

- TO BE CORRUGATED HDPE 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)

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

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.

PLUMBING PLAN

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

	FIRST FLOOR JACK	SCHEDUL	E
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS
JIOI	JACK - (2) 2X4 SPF STUD GRADE	1024	
JI02	JACK - (2) 2X4 SPF STUD GRADE	1024	
SOIL	JACK - (3) 2X4 SP#I	1016	
JIO4	JACK - (3) 2X4 SP#I	1016	
JI <i>0</i> 5	JACK - (2) 2X4 SPF STUD GRADE	1012	
7106	JACK - (2) 2X4 SPF STUD GRADE	1012	
TOIL	JACK - (2) 2X4 SPF STUD GRADE	1012	
30IL	JACK - (2) 2X4 SPF STUD GRADE	1018	
POIL	JACK - (2) 2X4 SPF STUD GRADE	1018	
OIL	JACK - (2) 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 (1) 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
- 3. ALL EXTERIOR WALLS TO BE 4" W/ OSB OR 3 1/2"
 W/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL
 INTERIOR WALLS TO BE 3 1/2", UNLESS OTHERWISE NOTED.
 4. HATCHED AREAS INDICATE DROPPED CEILINGS. ALL
- DROPPED CEILINGS ARE I2" UNLESS OTHERWISE NOTED.

 5. SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF APPLICABLE.
- 6. SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR INTERIOR TRIM DETAILS.
- 7. SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.

 8. ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS
- OTHERWISE NOTED.

 ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES
- ABOVE, UNLESS OTHERWISE NOTED.

 10. TANKED WATER HEATER SHOWN AS BASE CONDITION,
 OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN
 LIEU OF TANKED WATER HEATER.

GYPSUM NOTES

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.

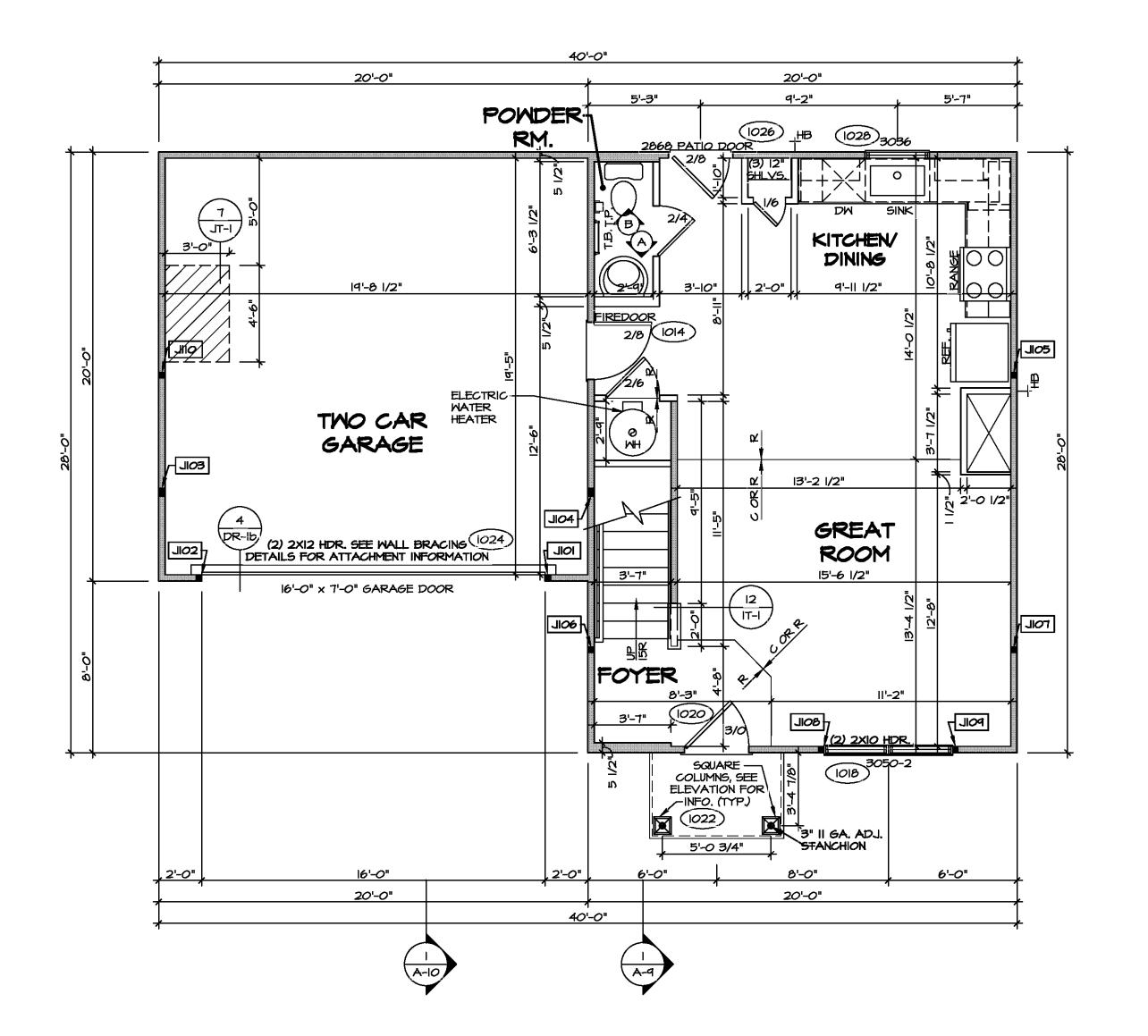
AT STAIRS:

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

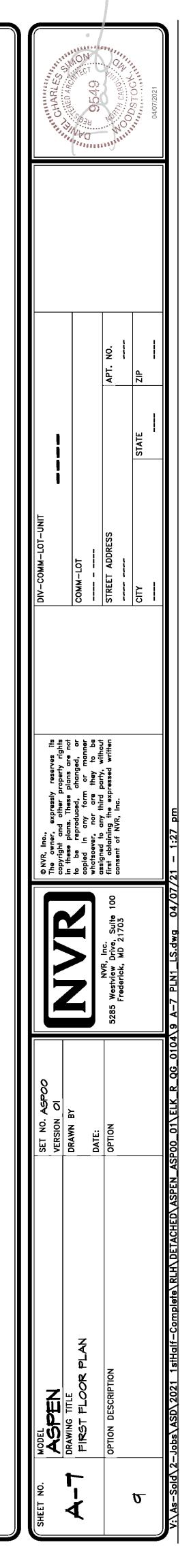
BEARING WALL NON BEARING WALL NON BEARING WALL NON BEARING FROM POINT-LOAD ABOVE L JACKS B BEAMHEADER F PAD FOOTING STEEL COLUMN X TRUSS TIE DOWN X PORTAL FRAME X JOIST/TRUSS L____ LVL

X ENGINEERING PAGE NUMBER

SEE FC DETAILS FOR FRAMING CONNECTORS









- ALL HEADERS ARE (2) 2x6 W/ 2x4 WALLS OR (3) 2x6 W/ 2x6 WALLS, UNLESS OTHERWISE NOTED.
- ALL HEADERS TO HAVE (1) 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" W/ OSB OR 3 1/2" W/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL INTERIOR WALLS TO BE 3 1/2", UNLESS OTHERWISE NOTED.
- . HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED. SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF
- APPLICABLE. 5. SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR
- INTERIOR TRIM DETAILS.
 SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.
- ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS OTHERWISE NOTED.
- ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES
- ABOVE, UNLESS OTHERWISE NOTED. O. TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.

GYPSUM NOTES

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

LEGEND

BEARING WALL

NON BEARING WALL

INDICATES BEARING FROM POINT-LOAD ABOVE

L JACKS

BEAM/HEADER

PAD FOOTING

STEEL COLUMN

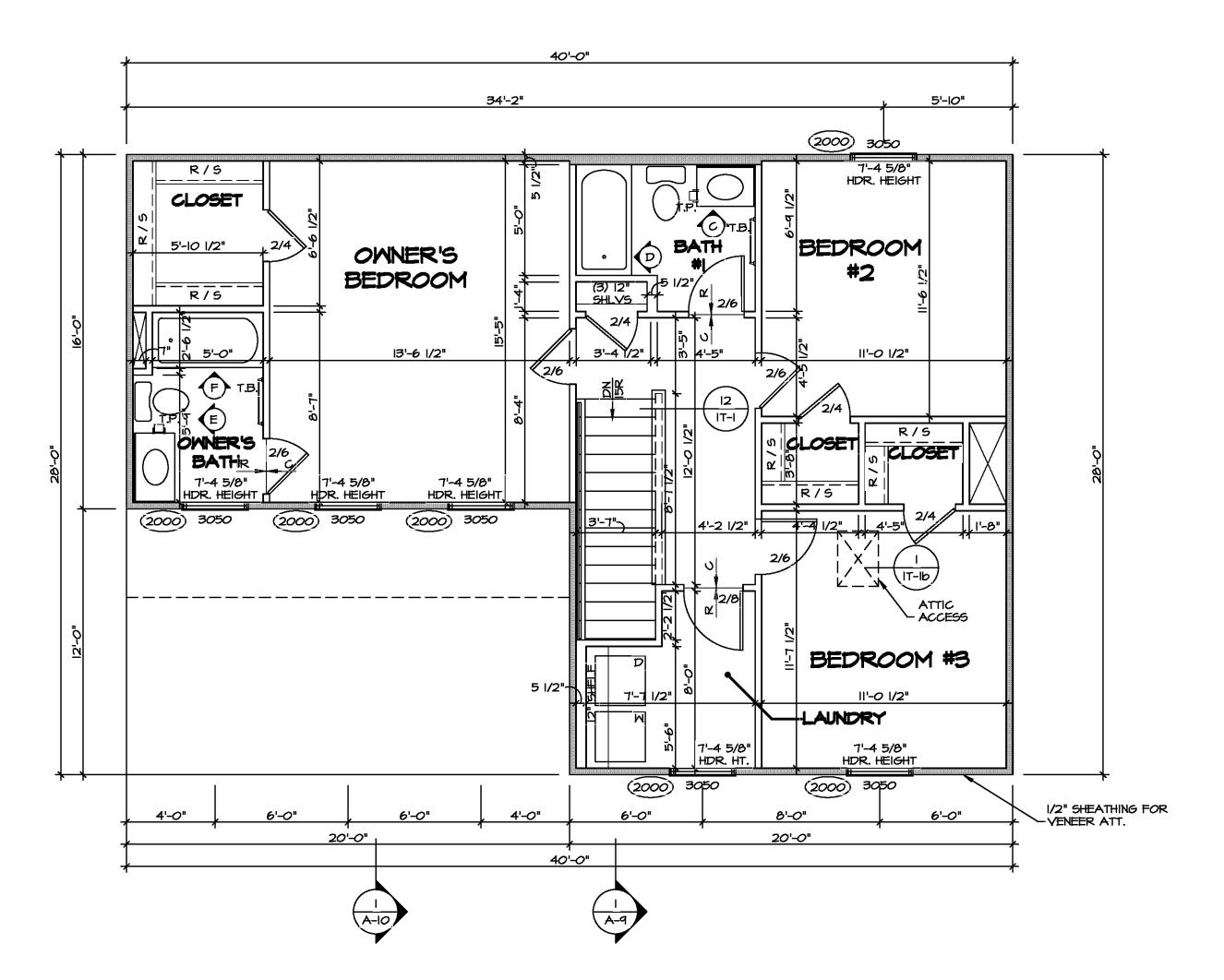
TRUSS TIE DOWN X PORTAL FRAME

X JOIST/TRUSS

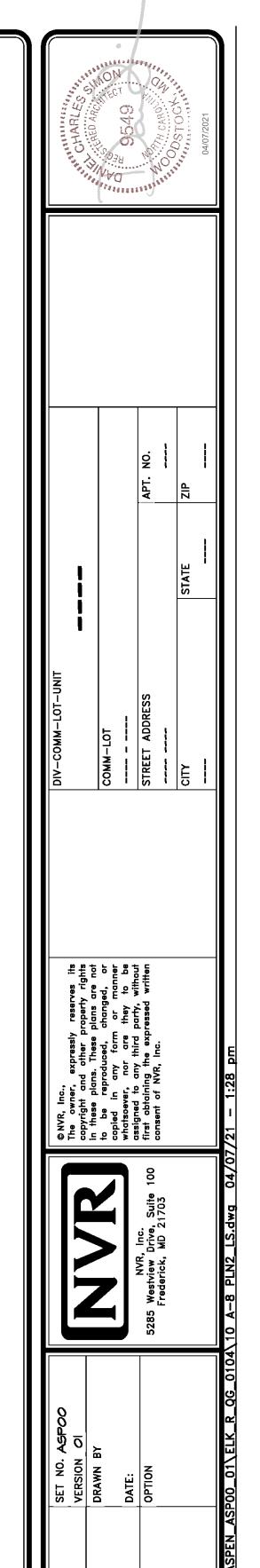
L____ LVL

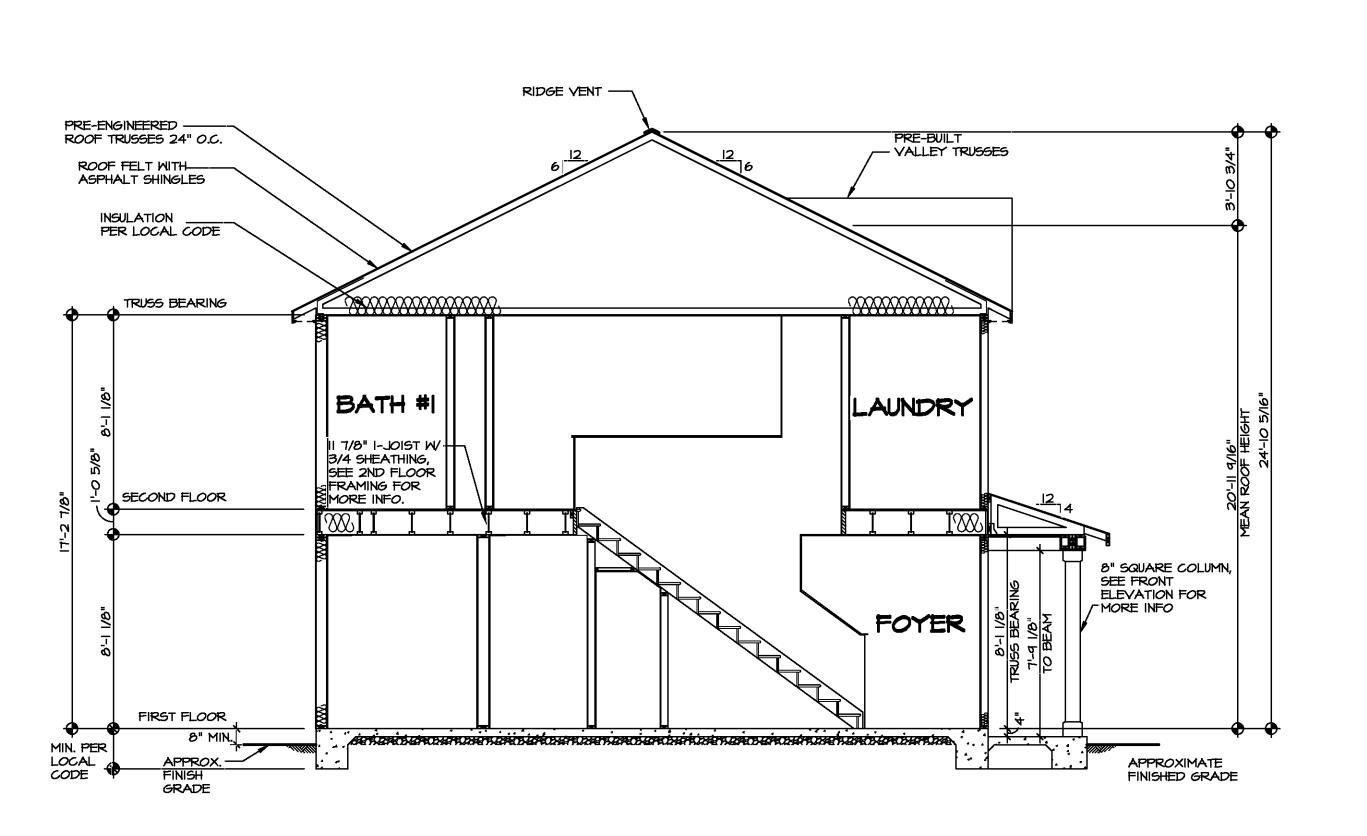
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SEE FC DETAILS FOR FRAMING CONNECTORS



SECOND FLOOR PLAN SCALE: 1/4" = 1'-0"

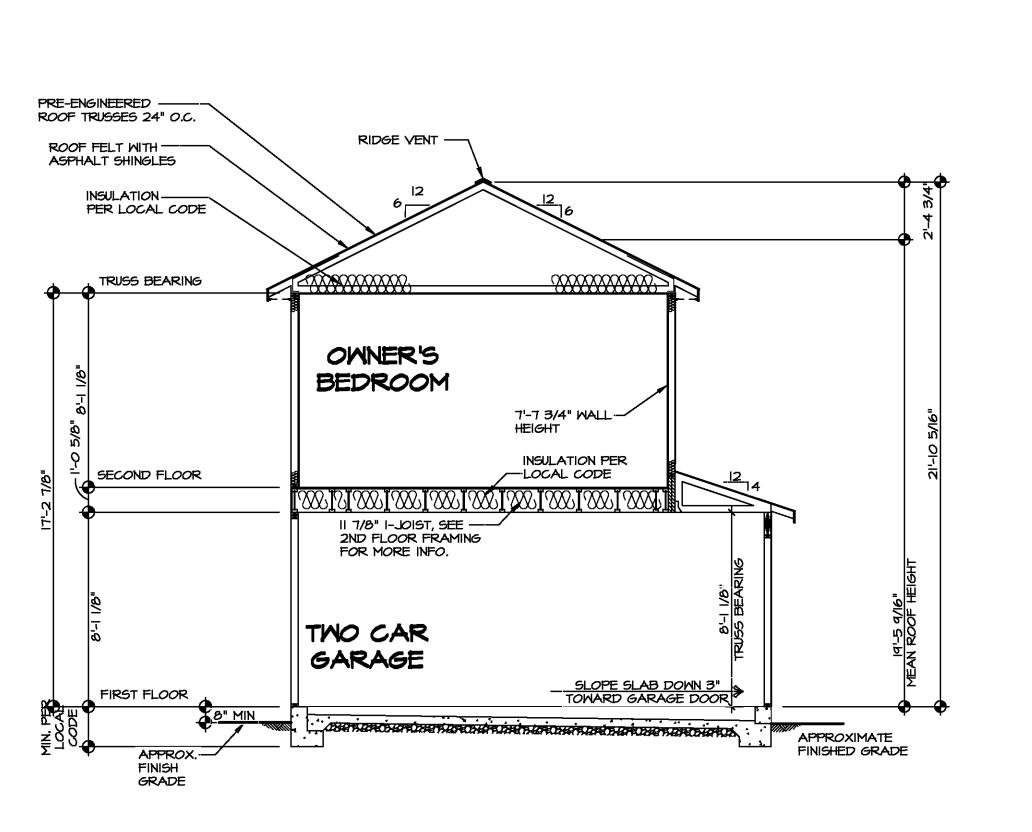




BUILDING SECTION - FOYER

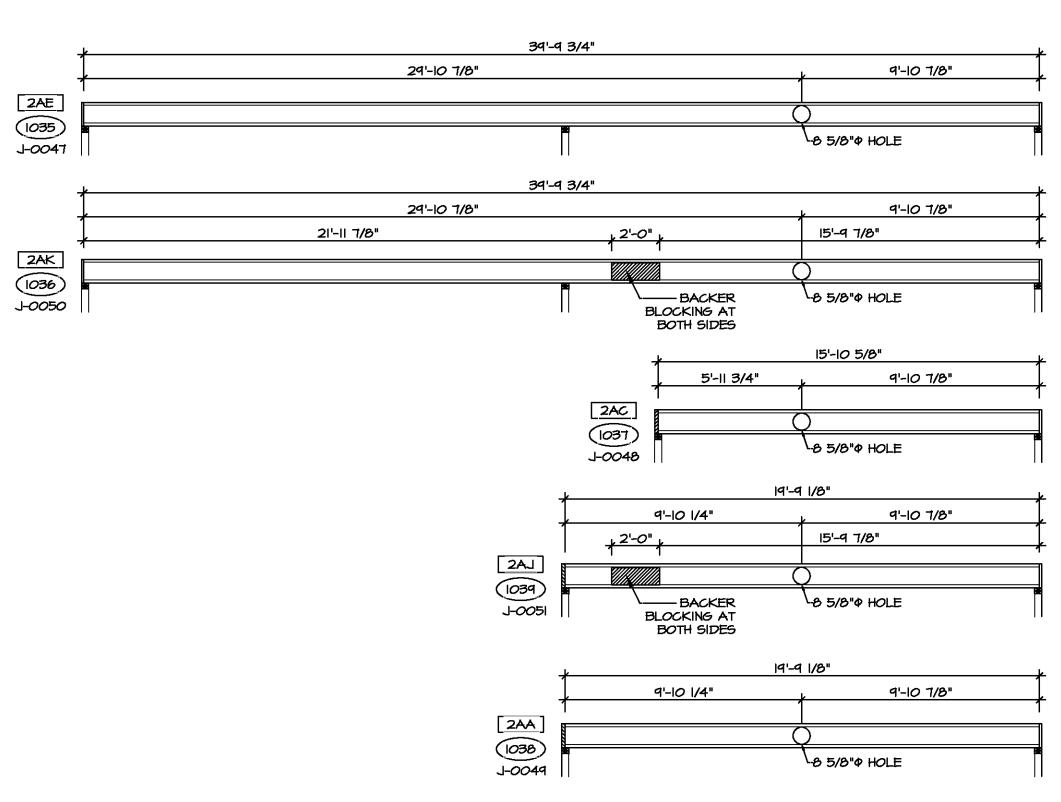
SCALE: 1/4" = 1'-0"

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HOLE JOIST CUT DETAILS

5-2 SCALE: 1/4" = 1'-0"

	SECOND FLOOR FRAMING LENGTH SCHEDULE					
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS		
2AA	PRI 60 - 11-14	19'-9 1/8"		J-0049		
2AC	PRI 40 - 11-14	15'-10 5/8"		J-0048		
2AE	PRI 60 - II-14	39'-9 3/4"		J-0047		
2AF	PRI 60 - II-14	20'-1 1/4"				
2AH	PRI 60 - 11-14	39'-9 3/4"				
2AJ	PRI 60 - 11-14	19'-9 1/8"	1012	J-0051		
2AK	PRI 60 - 11-14	39'-9 3/4"	1012	J-0050		

SECOND FLOOR LYL LENGTH SCHEDULE					
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS	
L201	LVL 1.75 - 11-14	12'-7 1/8"	1010		
L202	LVL 1.75 - 11-14	7'-1 1/8"	1033		
L203	LVL 1.75 - 11-14	12'-0"	1033		
L204-2	LVL 1.75 - 18	20'-3 1/2"	1016	2.A	
L205	LVL 1.75 - 11-14	3'-10 1/2"	1008		
L206	LVL 1.75 - 11-14	3'-7"	1008		

- LVL PLY TO PLY FASTENING SCHEDULE: (WHERE APPLICABLE BASED ON LVL USAGE)
- ALT I 1/2" WIDE LYL FASTEN PLIES W (3) ROWS 12D NAILS AT 12"O.C.

 2.A (2) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W (3) ROWS 16D NAILS AT 12" O.C. OR

I.A - (2) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) 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 I6D NAILS AT I2" O.C. OR ALT I I/2" WIDE
- LVL FASTEN PLIES W (5) ROWS I2D NAILS AT I2"O.C. 4.A - (3) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W (2) ROWS I6D NAILS AT I2" O.C. FROM EACH SIDE OR ALT I I/2" WIDE LVL FASTEN PLIES W (3) ROWS I2D NAILS AT I2"O.C. FROM
- EACH SIDE.

 5.A (3) PLY 14" TO AND 16" TALL (INCLUSIVE): FASTEN PLIES W (3) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT I 1/2" WIDE LYL FASTEN PLIES W (4) ROWS 12D NAILS AT 12"O.C. FROM EACH SIDE.
- 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 1/2" WIDE LYL FASTEN PLIES W (5) ROWS 12D NAILS AT 12"O.C. FROM EACH SIDE.
- 7.A (4) PLY (ALL SIZES): FASTEN PLIES W/ (2) ROWS 1/2" DIAMETER A307 BOLTS AT 24" O.C.
 SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

I-JOIST FLOOR SYSTEM

- SUBFLOOR IS 3/4" TONGUE AND GROOVE OSB STANDARD.
 JOIST LENGTHS SHIPPED IS THE NEXT HIGHEST LENGTH TO CUT FROM.
 ALL RIMBOARD TO BE LIVE" THICK LIND.
- 3. ALL RIMBOARD TO BE 1-1/6" THICK U.N.O.
 4. REFER TO STANDARD DETAIL 7/JT-3 FOR HOLE CUTTING
- GUIDELINES.

 5. PROVIDE RIMBOARD SOLID BLOCKING AT EXTERIOR WALLS AND BELOW ALL JACKS AS REQUIRED.

 6. REFER TO DETAIL BIJT-3 FOR HANGER DETAIL.

 7. ALL JOISTS TO BE PRI40, PRI60 OR PRI80, REFERENCE
- SCHEDULE FOR SPECIFIC SERIES PER MEMBER,
 A. PRI4O SERIES ARE SHOWN AS SHADED ON FRAMING
 PLAN.
 8. SEE CONNECTOR / NAIL CHART IN STANDARD DETAILS
- (FC-4) FOR TYPICAL HANGERS.

 10. ALL LVL BLOCKING CUT FROM 14'-0" MATERIAL.

 11. ADHESIVE TO BE APPLIED AT THE RATE OF (I) TUBE PER

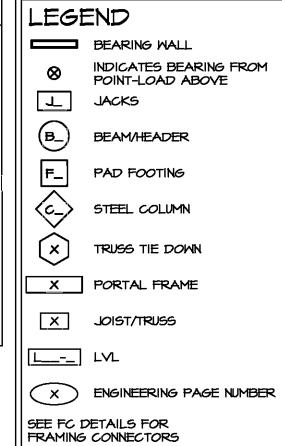
TWO AND ONE-HALF SHEETS; SHEETS ARE TO BE GLUED

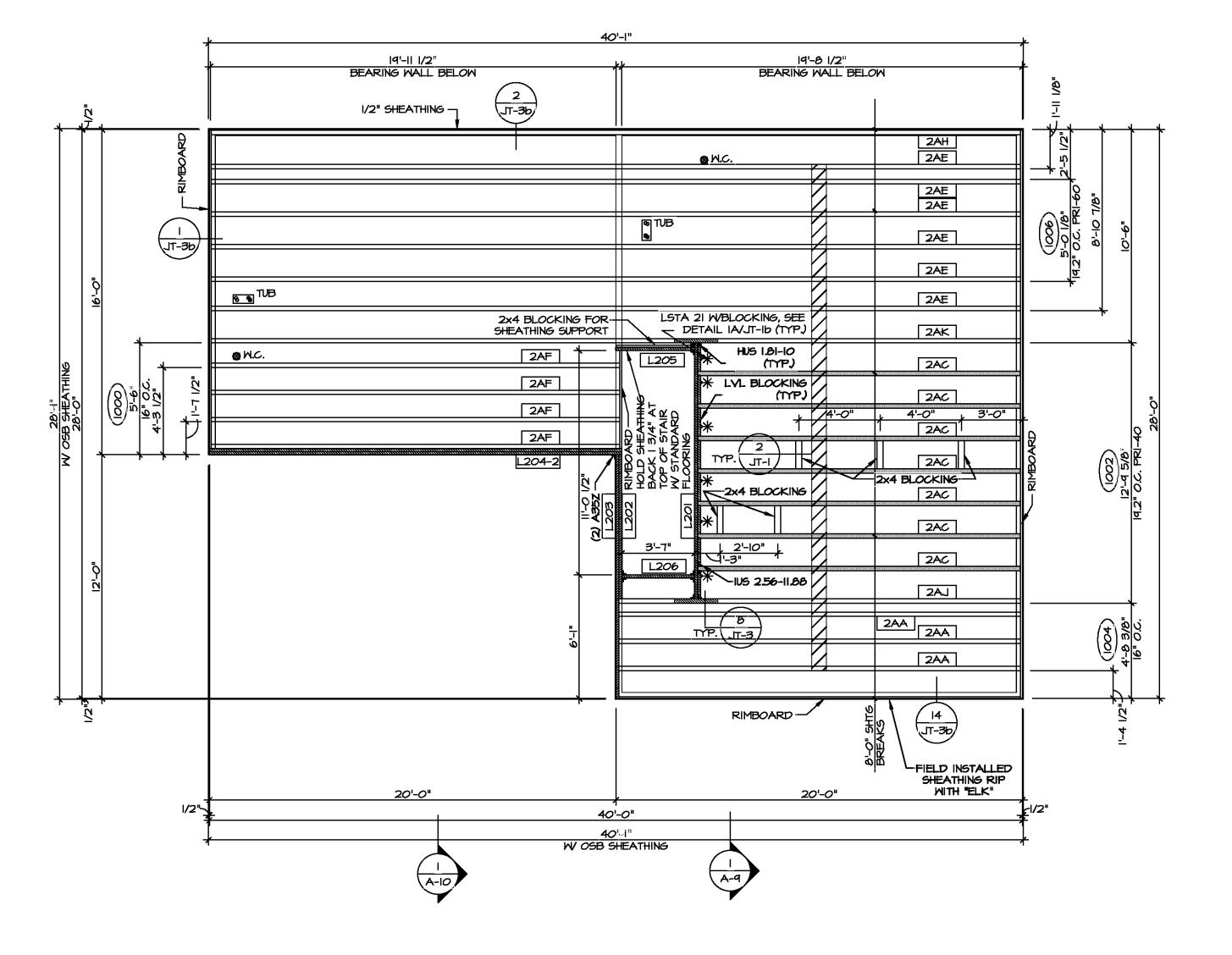
AND PLACED ONE AT A TIME. AFFLY GLIE TO TONGLE
AND GROOVE.

12. I-JOIST BLOCKING CUT FROM 2'-O" MATERIAL.

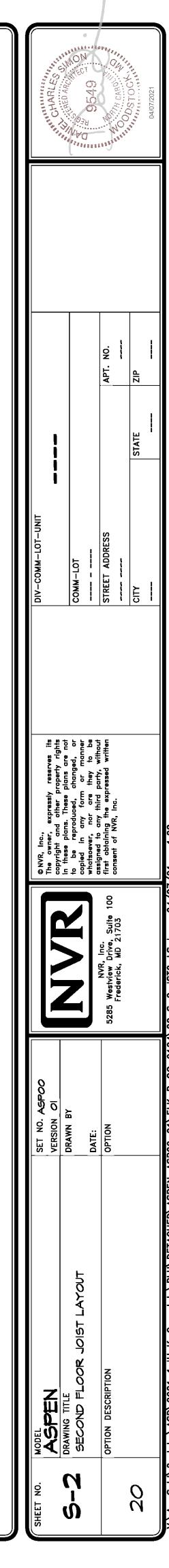
13. ADHESIVE TO BE ADDED TO ALL JOIST HANGERS PRIOR

TO SETTING JOISTS.









	TRUSS SCHEDULE					
IDENTIFIER	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/12)	TYPE	
AA	SE	16903	28'-0"	6/12	COMMON	
AB	SE	16904	28'-0"	6/12	SPECIAL	
AC	SE	16905	16'-0"	6/12	COMMON	
AD	SE	16906	4'-0"	4/12	MONO	
Æ	SE	16907	3'-10 1/2"	4/12	MONO	
AF	SE	16908	28'-0"	6/12	COMMON	
AG	SE	16909	28'-0"	6/12	SPECIAL	
AH	SE	16910	28'-0"	6/12	GABLE END	
LA	SE	16911	28'-0"	6/12	GABLE END	
AK	SE	16901	16'-0"	6/12	GABLE END	
VOI	Υ Τ	0 26	2'-0"	12-6/12	VALLEY	
V02	Υ Τ	01262	4'-0"	12-6/12	VALLEY	
V03	VT	01263	6'-0"	12-6/12	VALLEY	
V04	VT	01264	8'-O"	12-6/12	VALLEY	
V <i>0</i> 5	Υ Τ	95403	8'-6"	12-6/12	VALLEY	

FIELD INSTALLED ROOF FRAMING BEAM/HEADER SCHEDULE

IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS	
B301	BEAM BUILT 2X8 - 2 PLY RFF	6'-0"	1023		

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. TRUSS BRACING (2/RF-Ic)
- I.6. LIFELINE ATTACHMENT (5/RF-I)
- 1.7. FALL PROTECTION ON PLATFORM TRUSSES (II/RF-I)
 2. IF TRUSS DOES NOT APPEAR ON THE TRUSS BRACING
 SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED.

LEGEND

BEARING WALL

NON BEARING WALL

INDICATES BEARING FROM POINT-LOAD ABOVE

BEAM/HEADER

F_ PAD FOOTING

STEEL COLUMN

X TRUSS TIE DOWN

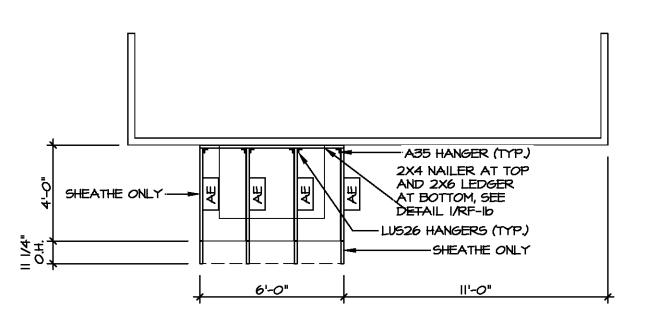
X PORTAL FRAME

X JOIST/TRUSS

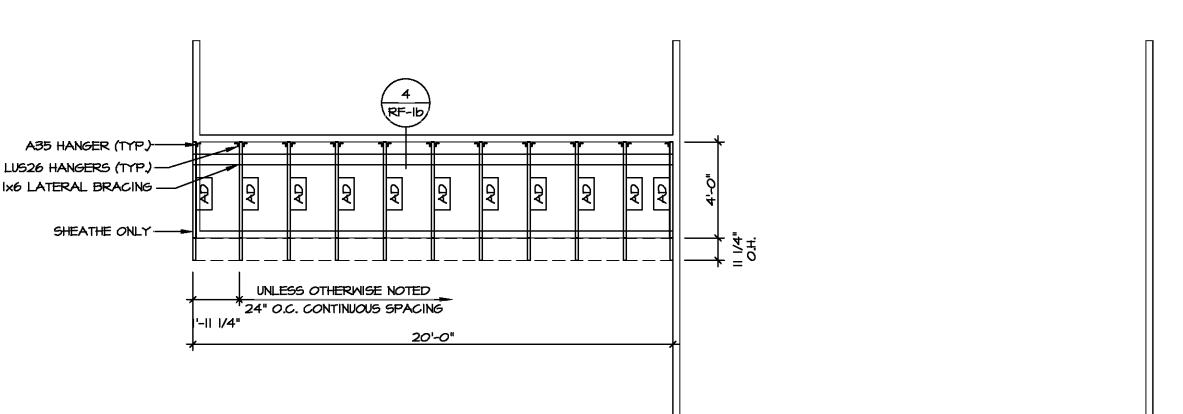
____ LVL

X ENGINEERING PAGE NUMBER

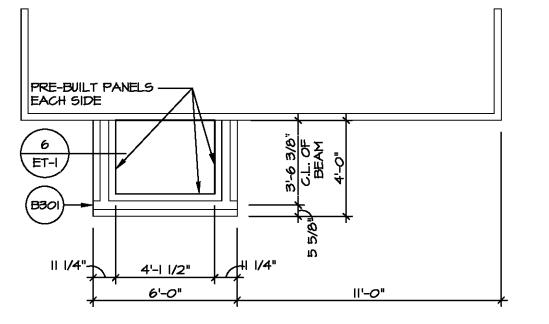
SEE FC DETAILS FOR FRAMING CONNECTORS



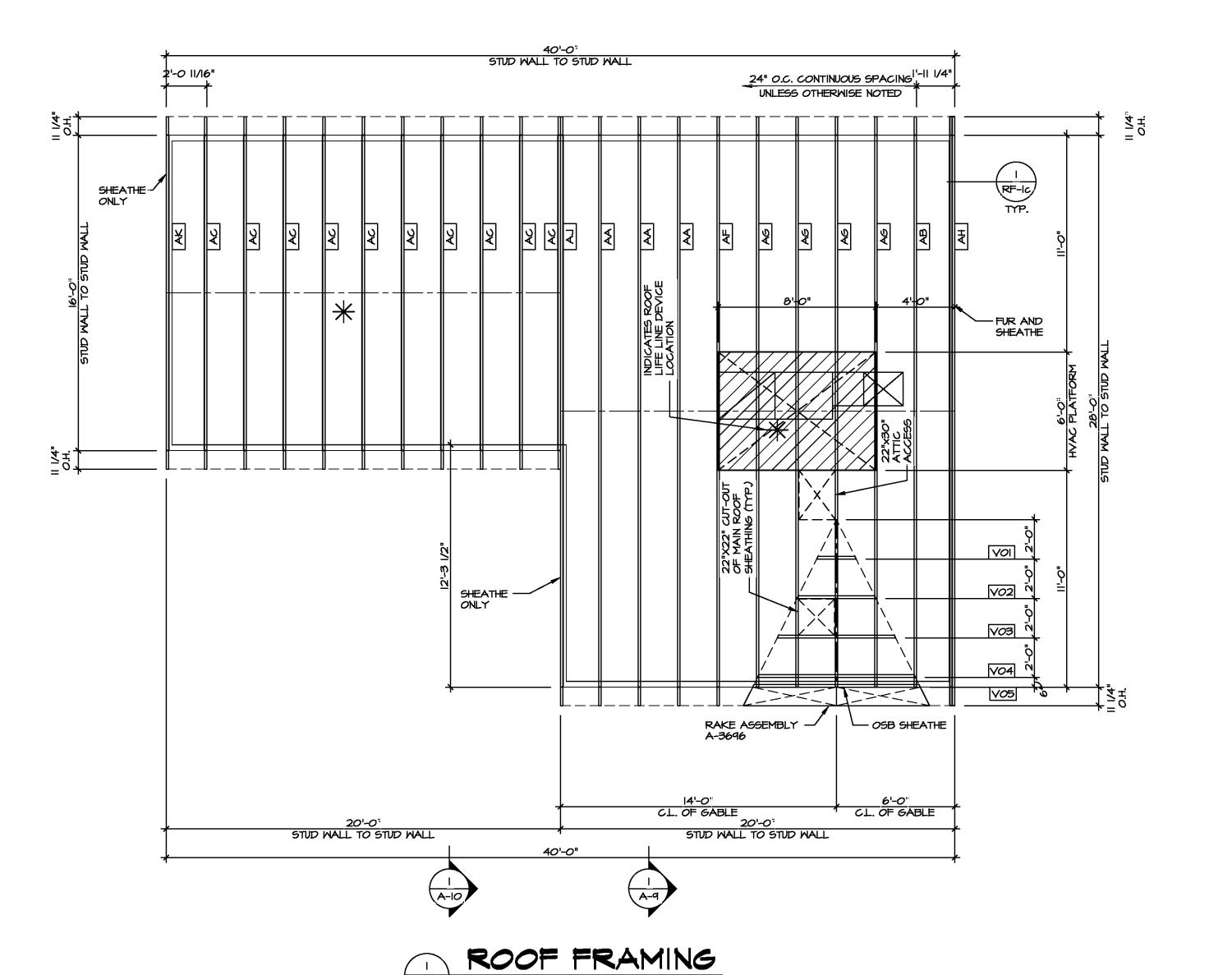


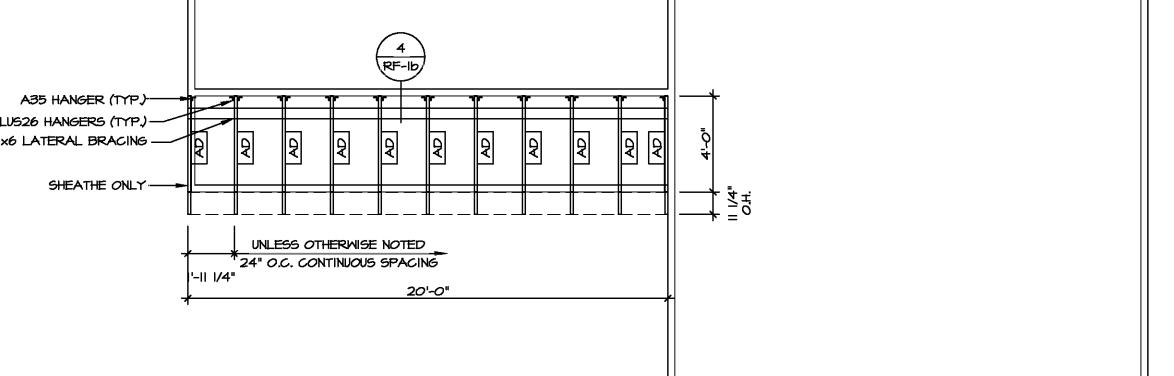


5-3 SCALE: 1/4" = 1'-0"

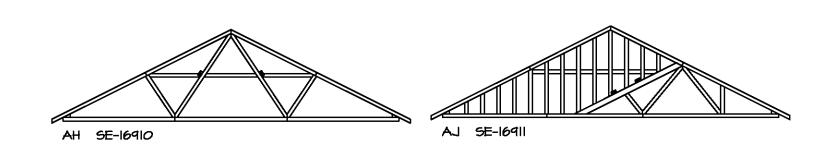












TRUSS BRACING DETAILS

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

TRUSS BRACING NOTES

- 1. IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.

 2. 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.

 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 IX6 LATERAL BRACING.

 4. DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (1/RF-I)

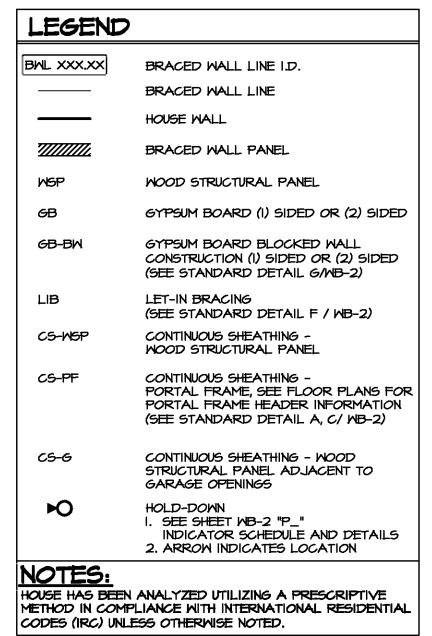
 5. STUDDED GABLE BRACING DETAIL I/RF-Ic TO BE UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.

 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.

 8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

DIV-COMM-LOT-UNIT ty rights age and	ged, or manner to be	without street ADDRESS APT. NO.	CITY STATE ZIP	
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A. 110 I 111 I -		SPACING	
SHEATHING	FASTENER	ED6E5	FIELD
7/16" WOOD STRUCTURAL PANELS OR	8d COMMON NAILS	6" O.C.	12" 0.0
EQUIVALENT (W/ METHOD MSP, CS-MSP, CS-G)	ALTERNATIVE FASTENER I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	12" 0.0
1/2" GYPSUM WALLBOARD	I-1/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	7" O.C.	ס "ד.
(W/ METHOD GB-I, GB-2)	CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	7" O.C.	7" 0.0
LAMINATED FIBROUS	IOd X I I/4" GALVANIZED ROOFING NAILS	3" O.C.	3" 0.0
STRUCTURAL SHEATHING	I-I/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" <i>O.</i> C.	3" 0.0
I/2" GYPSUM WALLBOARD BLOCKED AT THE EDGES (W/ METHOD GB-BW-I, GB-BW-2)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USED CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	4" O.C.	12" 0.

STRUCTURAL PANEL.

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

USE OF STAPLES IN WOOD STRUCTURAL PANEL AS FASTENING METHOD ON WALLS PER ENGINEERED AT TERMATING.

ALTERNATIVE.

WIND SPEED (ULT)	IDENTIFIER	ACTUAL (FT)	REQUIRED (FT)	METHOD
I30 MPH	BWL 100.00	16.81'	8.15'	CONTINUOUS (2 SIDE
130 MPH	BWL 101.00	21.041	14.78	WSP (2 SIDES)
130 MPH	BWL 102.00	34.15'	9.62'	WSP (2 SIDES)
130 MPH	BWL 103,00	17.00'	14.16'	MSP (2 SIDES)
130 MPH	BWL 200.00	14.00'	5.10'	WSP (2 SIDES)
130 MPH	BWL 201.00	24.33'	7.14'	WSP (2 SIDES)
130 MPH	BWL 202.00	34.50'	5.51'	WSP (2 SIDES)
130 MPH	BWL 203.00	13.46'	5.76'	WSP (2 SIDES)
130 MPH	BWL 204.00	4.50'	3.02'	WSP (2 SIDES)
130 MPH	BWL 205.00	12.00'	5.10'	WSP (2 SIDES)

BML 203.00	20'-3 1/2"	<u>,</u> 4'-10 1/2"	BWL 201.00
16'-0" 5'-6 3/4" WSP	WSP.	WSP	
12'-0" 3'-10 1/8" WSP	MSP MSP	BWL 205.00 BWL 204.00	WSP WSP
	SECOND	HSP MSP MSP 4'-6" 5'-0" 20'-0	4'-6"

