ASPEN

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COMM-LOT			
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STREET ADDRESS		APT.	NO.
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CITY	STATE	ZIP	
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	SLAB	FOUNDATION									
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TRUSS BRACING	22										FC-4
WALL BRACING	23										FC-5
										+	FD-Ib
											FD-4
											IT-I
											IT-lb
											I-TL dI-TL
										1	JT-3
											JT-3b
											KT-I
											RF-Ib
											RF-Ic
											SEP-I
											SEP-2
											SEP-3
											SP-I
											5P-2
											SP-3
											ST-I WB-2
											MD-I
											MS-I
											MS-Ib
										1	
										+	
										1	
										+	
										+	



FIRST FLOOR SQUAR	E FOOTAGE
PESCRIPTION	TOTAL SQ. FT.
ST FLOOR (BASE SF)	560 SF
	560 SF
SECOND FLOOR SQUA	RE FOOTAGE TOTAL SQ. FT.
PND FLOOR (BASE SF)	880 SF
THE FEOOR (B) (SE SI)	880 SF
GARAGE SQUARE	FOOTAGE
DESCRIPTION	TOTAL SQ. FT.
TWO CAR FRONT ENTRY GARAGE	400 SF
TOTAL FINISHED SQUA	RE FOOTAGE TOTAL SQ. FT.
ST FLOOR (BASE SF)	560 SF
2ND FLOOR (BASE SF)	880 SF
	1440 SF
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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 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. Use Group: R-3

3. Constr. Type: V-B

4. 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	FLOOR R-VALUE	BASEMENT WALL R-VALUE UNFIN. / FIN.	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
3	0.35	0.30	38	15 / 19	19	5 / 15	NA	5 / 15
4	0.35	0.30	38	15 / 19	19	10 / 15	10	10 / 15

2. All HVAC equipment is sized based on ACCA Manual J calculations. Ductwork is sized using ACCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.

- Air conditioner - 14 SEER - Gas furnace - 92% / 96% - Heat Pump - 8.2 HSPF

3. Winter interior design temperatures shall be 70°F and summer interior design temperatures shall be 75°F. Exterior design temperatures vary based on geographic location and are listed on the Manual J calculations.

4. Roof ventilation calculations are based on the following specifications:

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

Roof Areas - Top Chord

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

Floor Living Areas	- 40# P.S.F. (Live)	
-	- 10# P.S.F. (Dead)	unless noted otherwise by calculations
Floor Sleeping Areas	- 30# P.S.F. (Live)	unless noted otherwise by calculations
	- 10# P.S.F. (Dead)	unless noted otherwise by calculations
Garage Floors	- 50# P.S.F. (Live)	
	- 50# P.S.F. (Dead)	

- 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) - 30# P.S.F. (Live) Habitable Attics

- 20# P.S.F. (Live)

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

> - Areas up to 130 mph ultimate wind speed per Table R301.2(4)

Vasd 89 mph 101 mph Note: Linear interpolation between contour lines permitted. - 40# P.S.F. (Live)

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

<u>Design Criteria</u>

Malls

National Design specification for Wood Construction by National Forest

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

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

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

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

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

FOUNDATIONS

- I. All plain and reinforced concrete shall comply with requirements in ACI 318. 2. Concrete footings shall be poured a maximum 5" slump, 5 bag mix, and 2,500 psi minimum strenath 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
- 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.

or wall height conditions may require a higher psi mix.

6. Slab requirements:

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

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

PSI air-entrained concrete. Porch slab and exterior concrete work shall be nominal 4" minimum 3,500 PSI air-entrained concrete with 6x6 WI.4xWI.4 mesh or equivalent fiber mesh reinforcement.

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

Per R703.8.4.1 - Corrugated sheet metal veneer ties shall be a minimum of No. 22 U.S. qauqe by 7/8 inch. Each tie shall be spaced not more than 32" o.c. horizontally and 24" o.c. vertically and shall support not more than 2.67 square feet of wall area. For townhouses in Seismic Design Category C and in wind areas of more than 30 pounds per square foot pressure, each tie shall support not more than 2 square feet of wall area.

Additional metal ties shall be provided around all wall openings greater than 16 inches (406 mm) in either dimension. Metal ties around the perimeter of openings shall be spaced not more than 3 feet (9144 mm) on center and placed within 12 inches (305 mm) of the wall opening. Per R703.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall

Per Table R703.8.4 - Provide minimum I-inch air space between brick veneer and sheathing. Per R703.8.6 - Provide minimum 3/16" diameter weep holes at 33" on center maximum, located immediately above the flashing.

Per R703.8.5 - When veneer of brick, clay tile, concrete, or natural or artificial stone are used, 6 mil plastic flashing shall be attachéd to the sheathing wherever necessary to prevent moisture penetration behind the veneer. See NVR Flashing Details.

18. Reserved for future use.

be provided behind brick.

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

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

WALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)
		4-	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	8"	45	7'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)
	<i>8</i>	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)
8'-0"		<i>60</i>	7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (d,e)
0-0		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	10"	45	7'-0"	NOT REQUIRED	2- #4 BARS (f)
	10	60	6'-0"	NOT REQUIRED	2- #4 BARS (f)
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
		45	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
	ළ"		8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)
			7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)
9'-0"		60	8'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (d,e)
		4E	7'-0"	NOT REQUIRED	3- #4 BARS (g)
	10"	45	8'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
		60	7'-0"	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. 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).
- q. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

PLANS

- I. Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. openable area (5.0 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hqt. 24", min. width 20") per R310.1.
- 2. All emergency escape and rescue openings shall have a minimum net clear openable area of 4 sa ft. The minimum nét cléar 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 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.

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

- 5. Interior stairway shall have minimum head room of 6'-8" per 311.7.2 and minimum tread depth of 9" and maximum riser height of 8 1/4". Handrails are required for stairs with four or more risers and shall have minimum height of 34" and maximum height of 38" above treads and landings. Handrail to have maximum 4 1/2" projection into width of stair per Section R311.7. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 1/2" gypsum board per
- 6. Guard rails to have minimum height of 36" and shall not have openings from the walking surface to the required quard height which allow passage of a sphere 4 inches in diameter per R312.
- 7. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a quard,
- shall not allow passage of a sphere 6 inches (153 mm) in diameter per R312.1.3. 8. Where exterior landings or floors serving the required egress door are not at grade, they shall be

provided with access to grade by means of a a stairway in accordance with Section R311.7 (see item #5

- above) or a ramp in accordance with Section R311.8. 9. Handrails shall be installed on exterior stairs having (4) or more risers per R311.7.8. Guards shall be installed at exterior porches / decks that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open
- 10. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per R703.4. See NVR Flashing Details.
- II. Wood framed walls assumed to be 2×4 stud construction unless otherwise noted on plans. Bearing walls shall have studs 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 Type W 1-1/4" drywall screws.

	اد	,						
SCREW FASTENING SCHEDULE								
WITH ADHESIVE								
<u>a </u>	Ceilings	Load-brg. walls	Non-load-brg. walls					
_	16	24	24					
	16	16	24					
	MIT	HOUT ADHESIVE						
a l	Ceilings	Load-brq. walls	Non-load-brg. walls					
	12	16	16					
	12	12	12					
_	g g	G Cellings 16 16 16 MITH	MITH ADHESIVE G Ceilings Load-brg. walls 16 24 16 16 MITHOUT ADHESIVE G Ceilings Load-brg. walls					

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

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

- 19. Attic spaces shall be ventilated w/ridge and soffit vents unless otherwise noted. Venting provided per
- 20. Fireblocking shall be installed between ceiling and floor openings per R302.II. Draftstopping to be installed in accordance with R302.12.
- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to center- between adjacent fixtures. There shall be a clearance of not less than 21 inches in front of the water closet, lavatory or bidet to any wall, fixture or
- 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International Mechanical Code.
- 23. Mechanical fireplaces shall be installed per Section RIOO4 and IOO5.
- 24. Single family attached structures to have 2-hour dwelling unit separation wall continuous to roof deck. Roofing material to be minimum class "C" over approved fire retardant wood decking extending 4' each
- side of dwelling unit separation wall per R302.2 and R302.3.
- 25. Untreated wood shall be minimum 8" above finish grade per R317.1 Item #2. 26. Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material
- 27. Exterior egress swing doors shall open onto a landing not more than 8 1/4" below the top of the threshold when door swings in and 1 1/2" below the top of the threshold when the door swings out. The landing shall extend a minimum of 36" in the direction of travel and be at least the width of the doorway served per
- 28. Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant screen, louvers, or grills having a min. opening size of 1/4" and maximum of 1/2" in any dimension per
- 29. Fasteners and connectors for pressure preservative-treated wood shall be hot-dipped galvanized steel. 30. Windows that have an operable opening more than 72" above finished grade or surface below, the lowest
- 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.

part of the clear opening of the window shall be a minimum of 24" above the finished floor of the room in

- 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
- 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. 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. 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
- Desian Cateaory C. 35. Minimum floor sheathing shall be 5/8" tonque & groove decking underlayment grade plugged and sanded, exterior qlue, qlued and nailed on joists to meet. "American Plywood Association" approved glued floor system, unless otherwise specified.

ELECTRICAL

- I. Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Co 2. Electric panel box installation to be in accordance with NFPA 70, Article 408 Section III. Location ma
- 3. Approved smoke detectors shall be installed in each sleeping room; outside each separate sleeping (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 anote detector is required, the devices shall be interconnected in such a manner that the actuation or one diar detector is required, the devices shall be intercented in state of the alarms in the individual unit. All smoke detectors shall receive their primary points.
- from the building wiring and be equipped with a battery buckup.

 4. Unless listed for installation in such locations, smoke detectors shall be installed at least 10 feet from a cooking appliance, at least 3 feet from the door to a bathroom containing a tub or shower, at least 3 feet from forced air supply registers, and at least 3 feet from the tip of a ceiling fan blade. In sleeping rooms, smoke detectors should be located in the vicinity of the room entrance. They shall be installed at the highest portion of the ceiling (including tray or coffered ceilings) or within 12 inches vertically from the bishest 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.

NVR ROOF VENTILATION CALCULATIONS

HOUSE NAME
HOUSE VERSION
PRODUCT LINE

VENTILATION VALUES

ASPEN
ASP00-01
RYANHOMES

SOFFIT: 9.9 sq in of vent per If
BOX / GABLE VENT: 45 sq in of vent per unit

	YES	(any)	(any)	VENT OK	No action req'd.
	NO	YES	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

							ELEVA	TION "A 8	& K"						
		Required:	Required:					Upper Box /	Lower Box				A/300	A/300	
	Area (A)	A/150	A/300	Soffit	Soffit Vent	Ridge	Ridge Vent	Gable Vent	Vent	TOTAL	OK A/150	OK A/300	% vent at	40%-50%	
Location / Options	(sq in)	(sq in)	(sq in)	(lf)	(sq in)	(If)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK?	Notes
Main House Roof	126720	844.80	422.40	70.56	698.54	10	180.00			878.54	YES	N/A	N/A	N/A	
											1100		41/4		
Garage Roof	11520	76.80	38.40	20	198.00		0.00			198.00	YES	N/A	N/A	N/A	
Garage Roof	11520	76.80	38.40	20	198.00		0.00			198.00	YES	N/A	N/A	N/A	
Garage Roof	11520	76.80	38.40	20	198.00		1	TION "B &	& L"	198.00	YES	N/A	N/A	N/A	
Garage Roof	11520	76.80	38.40	20	198.00		1	TION "B &	& L" Lower Box	198.00	YES	N/A	A/300	A/300	
Garage Roof	11520 Area (A)			Soffit	198.00	Ridge	1	TION "B &		TOTAL	OK A/150	OK A/300			
iarage Roof Location / Options		Required:	Required:			Ridge (<i>lf</i>)	ELEVA	TION "B &	Lower Box				A/300	A/300	Notes
	Area (A)	Required: A/150	Required: A/300 (sq in)	Soffit	Soffit Vent (sq in)	Ridge (<i>lf</i>)	ELEVA Ridge Vent (sq in)	TION "B & Upper Box / Gable Vent	Lower Box Vent	TOTAL	OK A/150		A/300 % vent at	A/300 40%-50%	

NVR - Business Use Only



Version 2.0 (Last Revised 04/26/19)

HOUSE VOL	UME CALCULATIONS	
HOUSE NAME	ASPEN	
HOUSE VERSION	ASP00-01	
PRODUCT LINE	RYANHOMES	

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

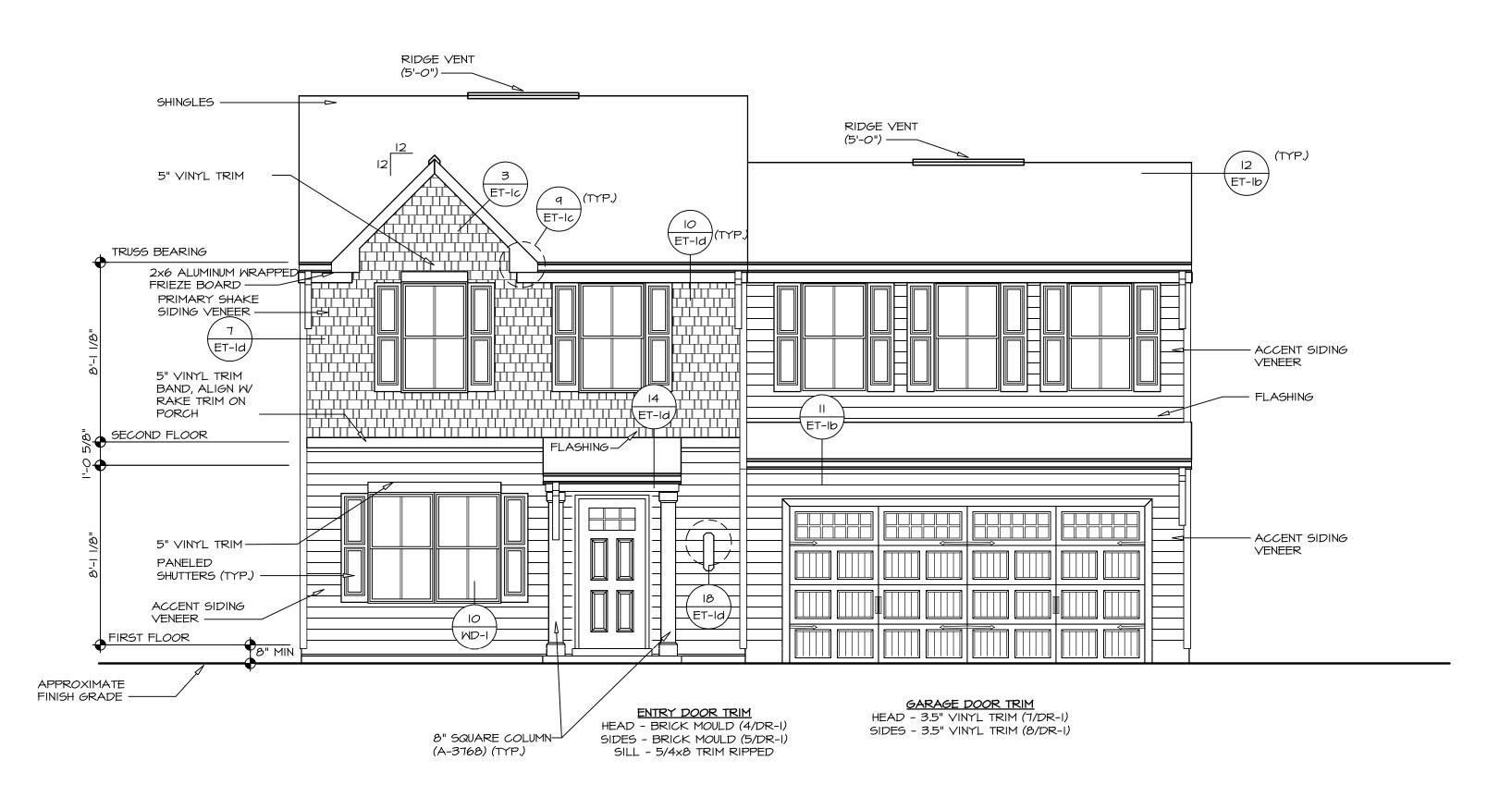
	ELEVATION	"A"	
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Left side of the house	560.00	20.98	11751
Right side of the house	320.00	19.48	6235
Garage bump out from main house	80.00	8.83	706
		Total House Volume	18693

	ELEVATION "E	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

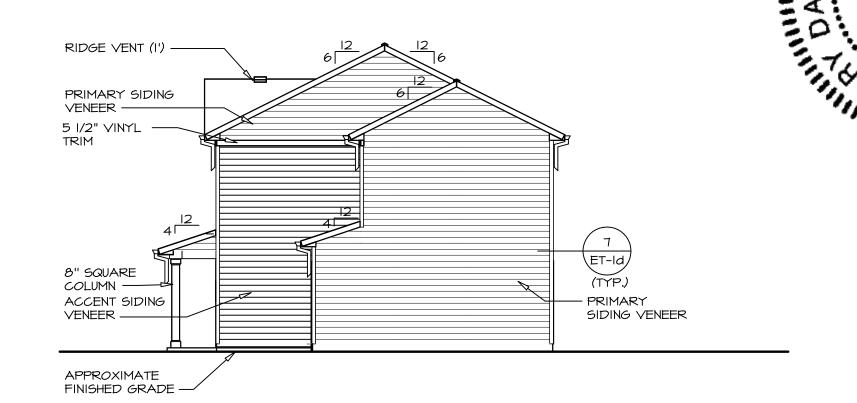
Additional areas of volume to be added to total house volume as needed							
Location / Area of house / option Floor Area (sq. ft.) Mean height (ft.) Total volume (cu. Ft.)							
Partial Front Porch "EPB" W/ Elevation	24.00	8.83	212				
Full Basement "FBA"	560.00	8.61	4824				
Crawl space "FCA"	560.00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

INIT APT. NO. STATE ZIP	
	!
	!
DIV-COMM-LOT-UNIT COMM-LOT STREET ADDRESS CITY	1

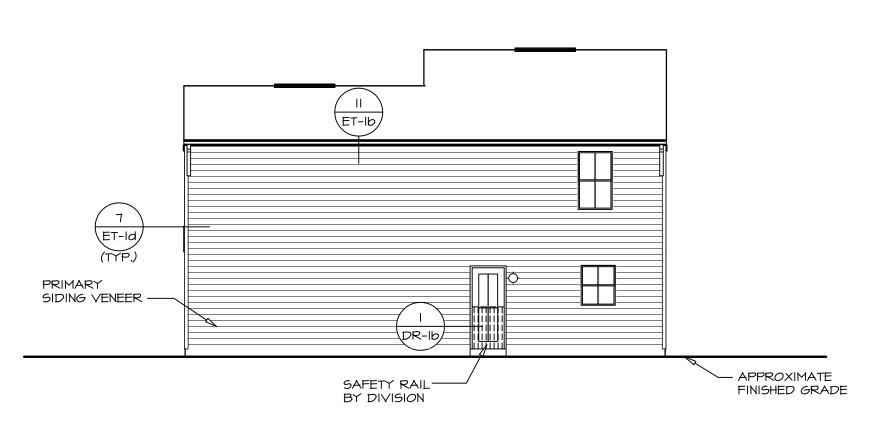
DRAWING TITLE	DRAWN BY
	DATE:
OPTION DESCRIPTION	OPTION



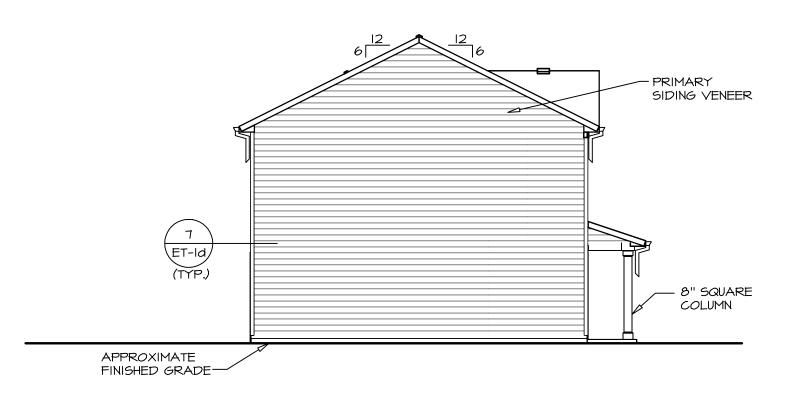






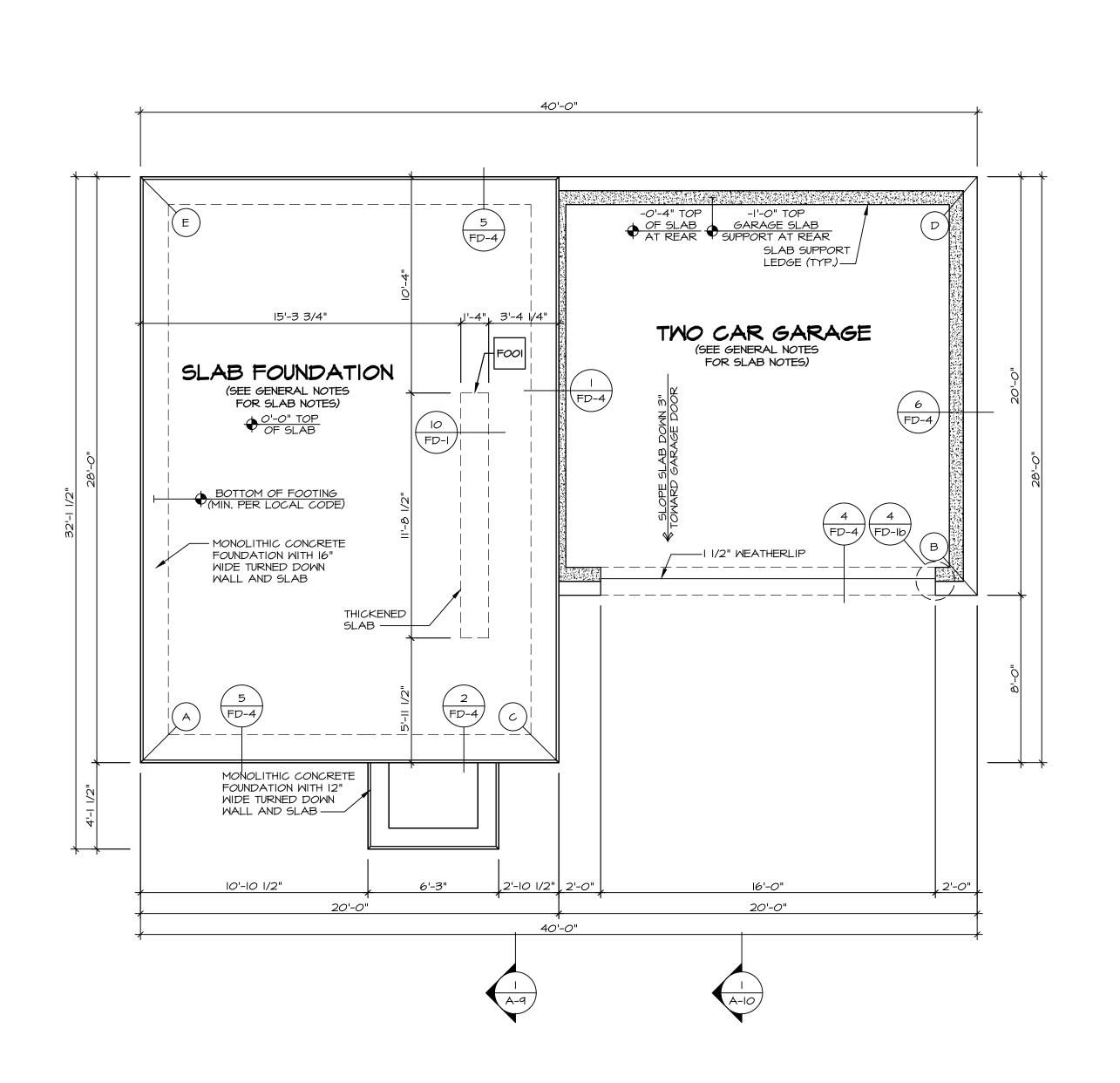








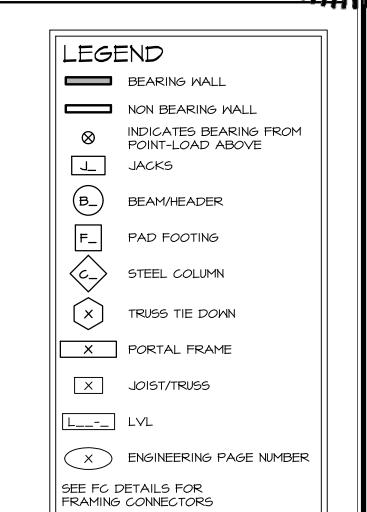
MODEL ASPEN DRAWING TITLE ELEVATIONS





- I. FOUNDATION UNDER HABITABLE SPACE:
 I.I. CONCRETE SLAB ON 6 MIL VAPOR BARRIER
 SUB-BASILINEER SPACE SHEET FOR SLAB NOTE
 SUB-BASILINEER SABAGE
- 2. FOUNDATION UNDER GARAGE:
 2.I. UNEXCAVATED WITH CONCRETE SLAB ON VIBARRIER OVER SUB-BASE (SEE SPEC SHEE
- 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.

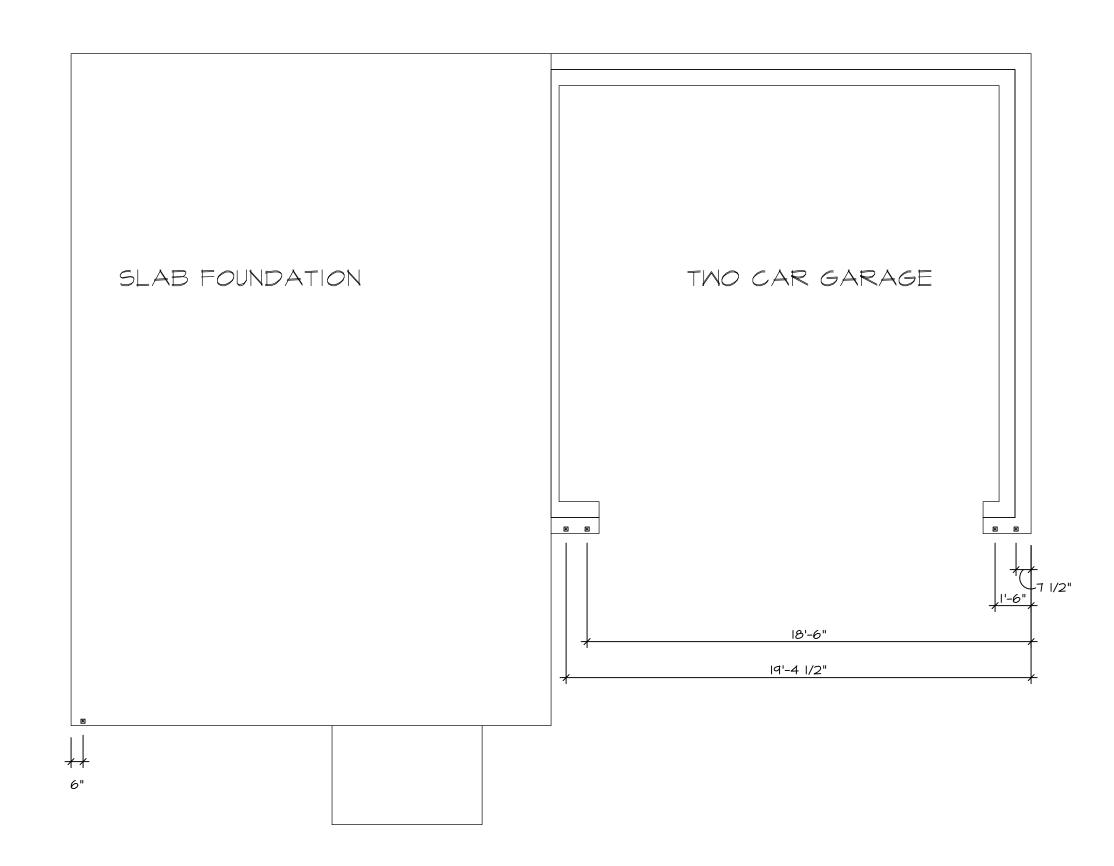
 5. THE DIRECTION OF THE ARROW IS THE DIRECTION OR REBAR, AS REQUIRED. 5. THE DIRECTION OF THE ARROW IS THE DIRECTION.
 REBAR, AS REQUIRED.
 6. ALL FOOTINGS ARE PLAIN, UNREINFORCED CONCRETE UNLESS NOTES OTHERWISE.



FOUNDATION DIAGONALS								
A B								
Α	0"	A 40'-9 1/2"						
В	40'-9 1/2"	В 0"						
C	20'-0"	C	21'-6 1/2"					
D	48'-9 29/32"	D	20'-0"					
E	28'-0"	E	44'-8 21/32"					

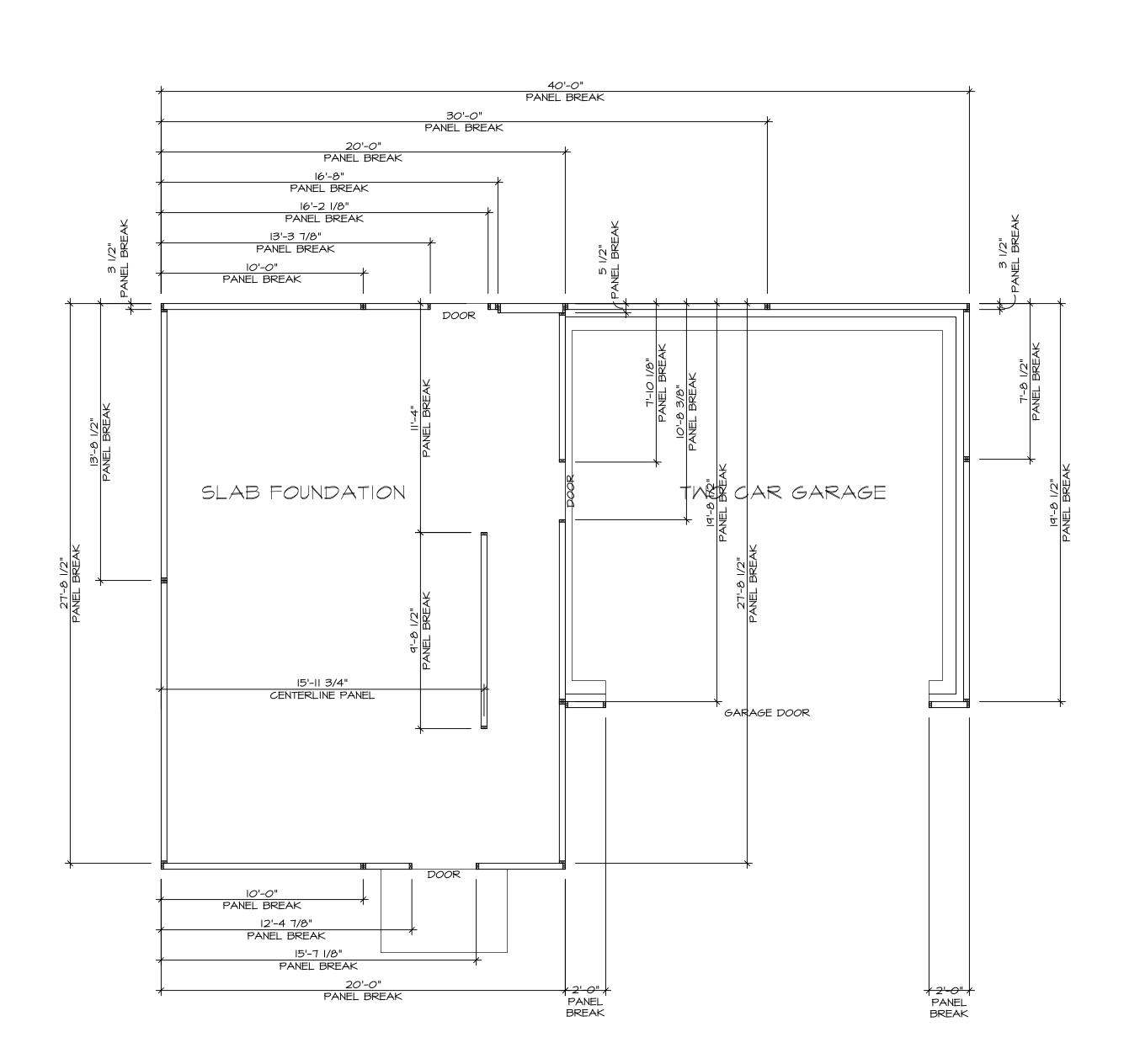
PAD FOOTING SCHEDULE							
IDENTIFIER LENGTH WIDTH HEIGHT ENG. NUM. REMARKS							
F00I	11'-8 1/2"	1'-4"	0'-8"	50001			

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



FOUNDATION HOLD DOWN DETAILS

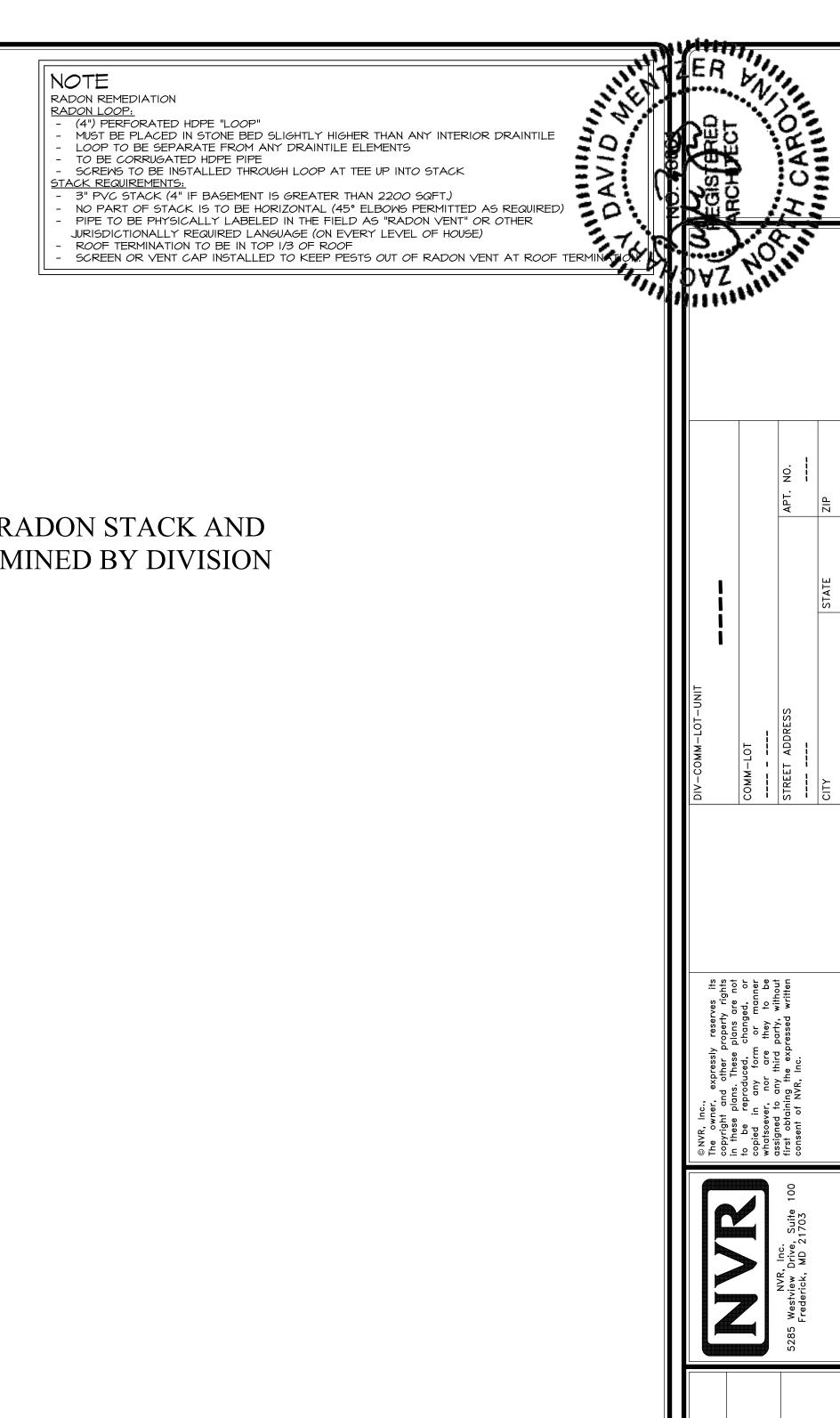
SCALE: 1/4" = 1'-0"



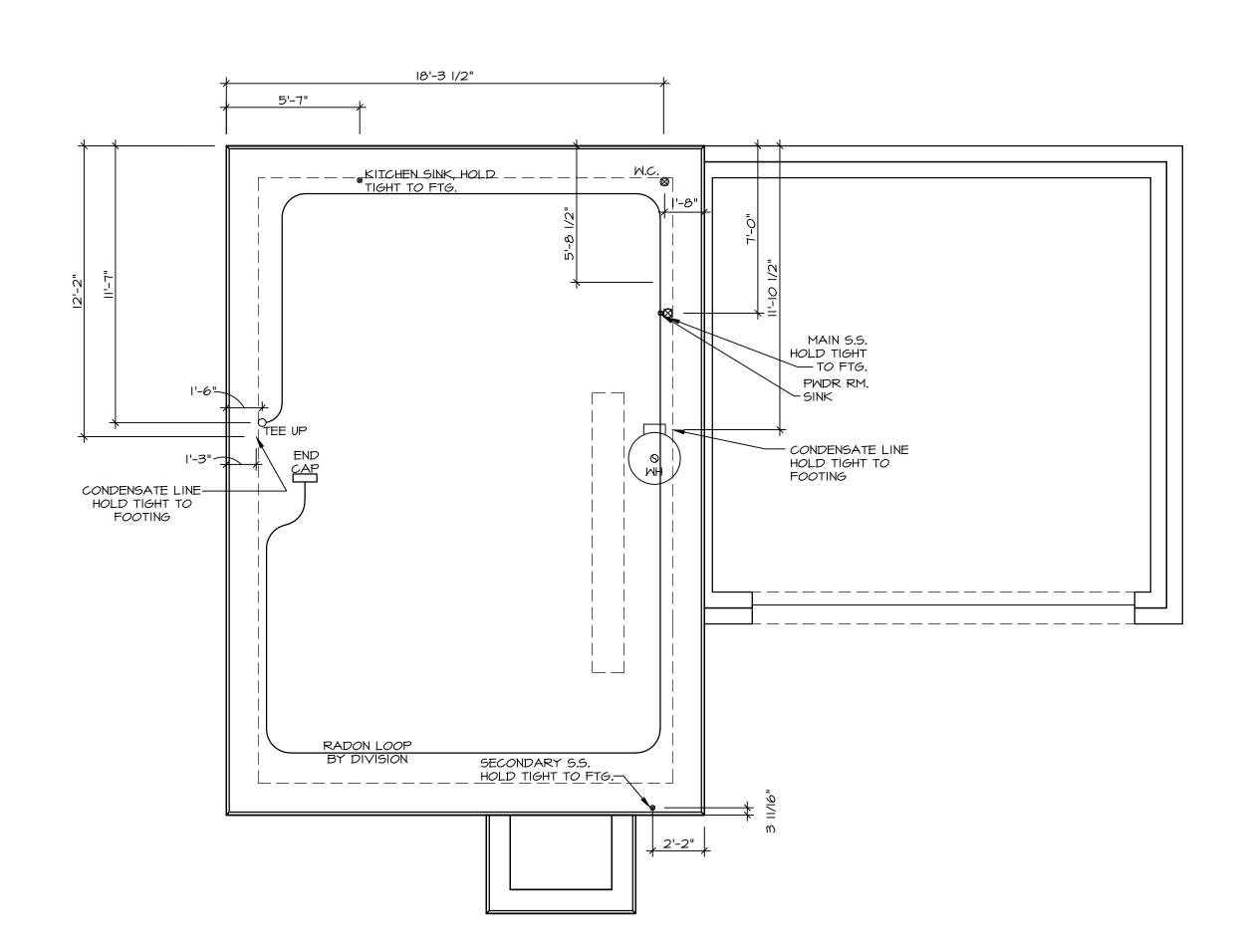
PANEL BREAK DETAILS

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

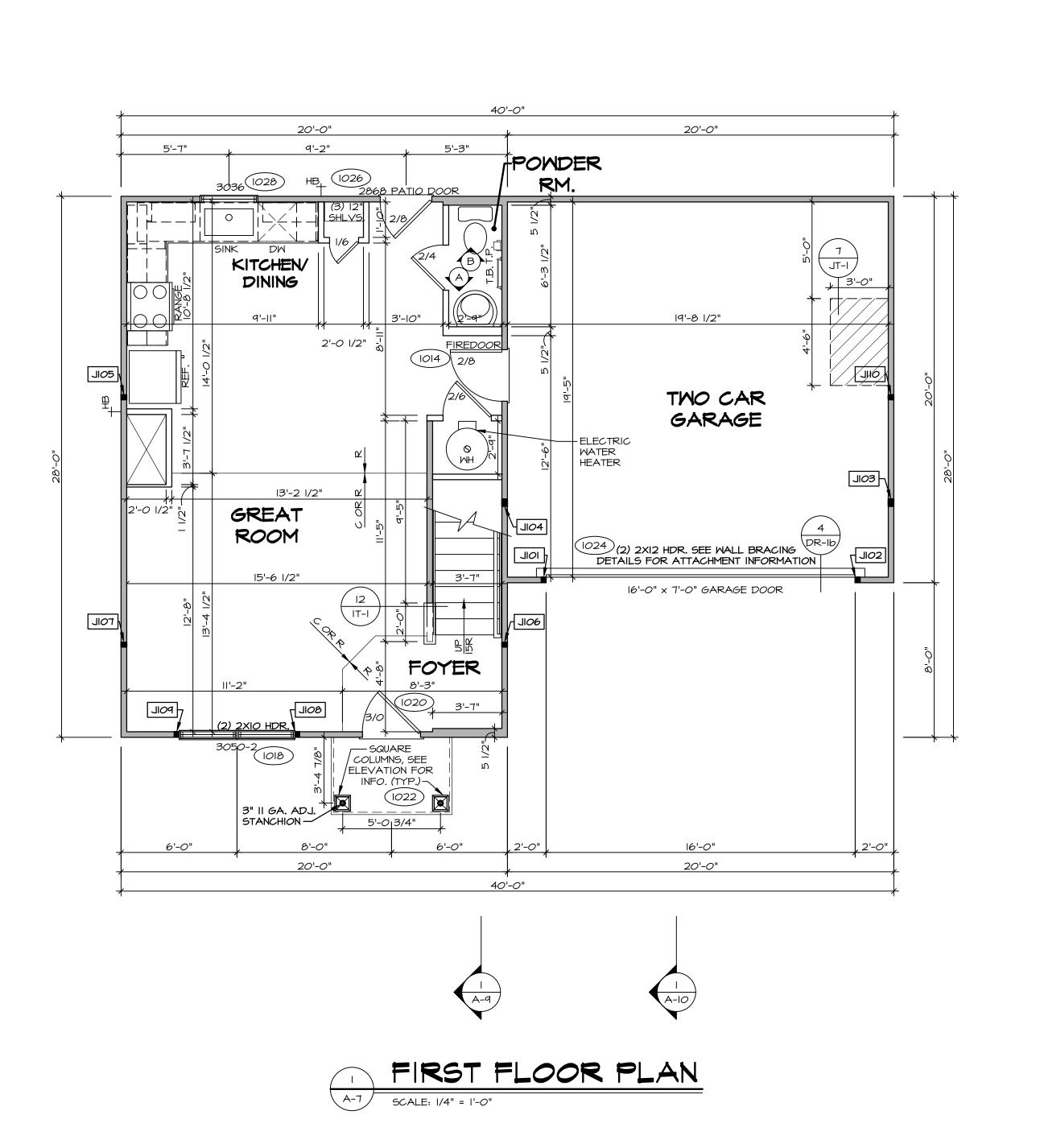
			<u> </u>	
	HOLD DOWN NOTES		DETAILS	
	TO DETAIL (9/FD-1) FOR HOLD DOWN OFFSET DIMENSIONS. R TO DETAIL (12/FD-1) FOR HOLD DOWNS ON CMU BLOCK.			
≤ 12 	I. ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FC-I FOR MORE INFORMATION ON ANCHOR DETAILS)		HOLD DOWN	
STRA	I A ON FOUNDATION USE (STHDIA)	MODEL ASPEN	TITLE ATION	OPTION DESCRIPTION
BOL Ma	2. ALL OTHER HOLD DOWN SEE DETAIL (WB-I, 2) FOR MORE INFORMATION. 3. BOLT LOCATION ON PLANS SHOWN BY SOLID	HEET NO.	4-4	

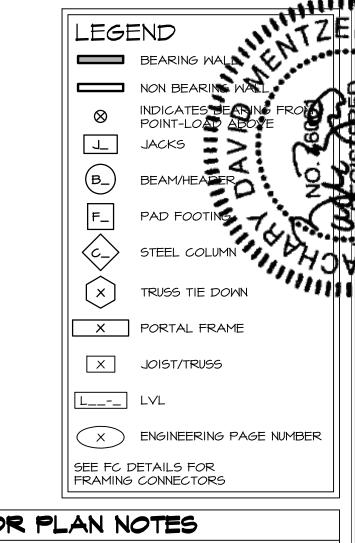


INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISION









FLOOR PLAN NOTES

ALL HEADERS ARE (2) 2x6 W/ 2x4 WALLS OR (3) 2x6 W/ 2x6 WALLS, UNLESS OTHERWISE NOTED. ALL HEADERS TO HAVE (I) 2x4 OR 2x6 JACK AND KING STUD EACH END, UNLESS OTHERWISE NOTED.
MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARING, UNLESS OTHERWISE NOTED. NO ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE

NOTED. 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. . 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. 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:

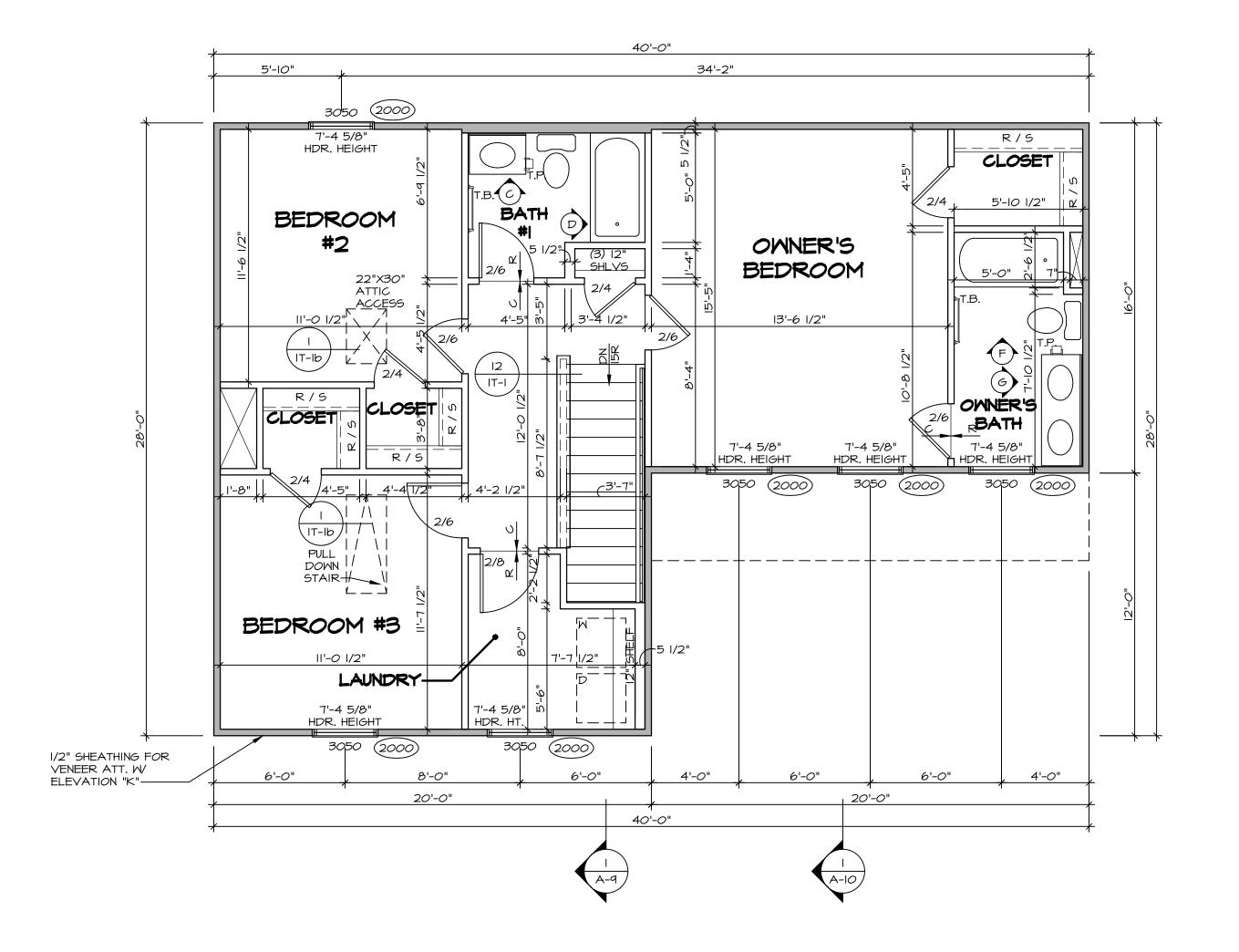
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-I(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:

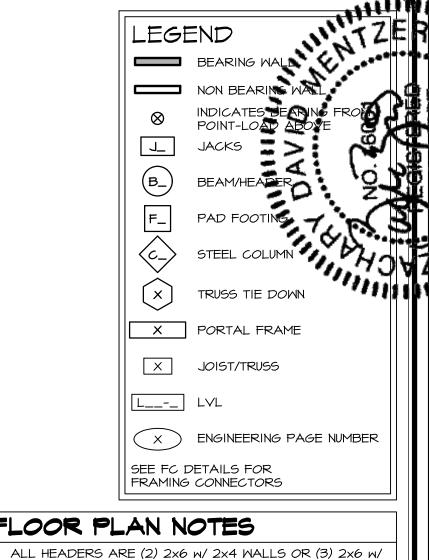
1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS

FIRST FLOOR JACK SCHEDULE						
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS			
IOIL	JACK - (2) 2X4 SPF STUD GRADE	1024				
JI02	JACK - (2) 2X4 SPF STUD GRADE	1024				
EOIL	JACK - (3) 2X4 SP#I	1016				
JIO4	JACK - (3) 2X4 SP#I	1016				
J05	JACK - (2) 2X4 SPF STUD GRADE	1012				
J 06	JACK - (2) 2X4 SPF STUD GRADE	1012				
70IL	JACK - (2) 2X4 SPF STUD GRADE	1012				
80IL	JACK - (2) 2X4 SPF STUD GRADE	1018				
POIL	JACK - (2) 2X4 SPF STUD GRADE	1018				
<u></u>	JACK - (2) 2X4 SPF STUD GRADE	1012				

FIELD	INSTALLED FIRST FL	OOR BEAM	HEADER	SCHEDULE
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS







FLOOR PLAN NOTES

2x6 WALLS, UNLESS OTHERWISE NOTED. ALL HEADERS TO HAVE (I) 2x4 OR 2x6 JACK AND KING STUD EACH END, UNLESS OTHERWISE NOTED.
MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARING, UNLESS OTHERWISE NOTED. NO

ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE NOTED. 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. . 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.

. 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.

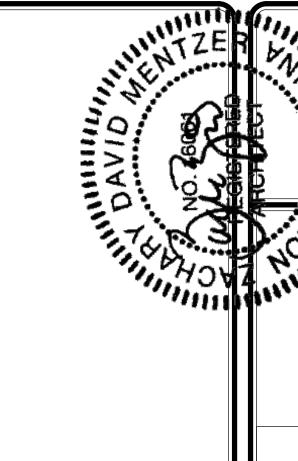
GYPSUM NOTES

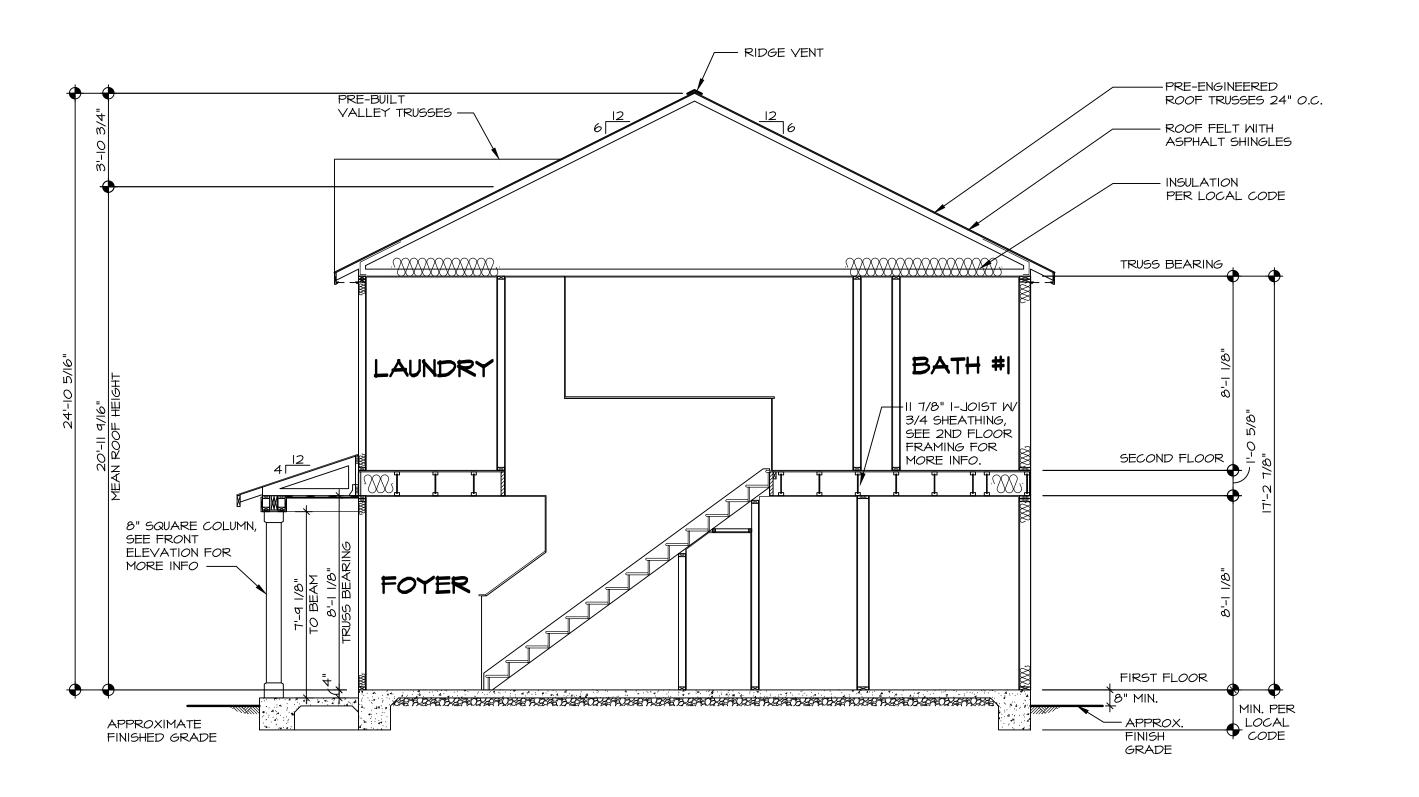
AT GARAGE:

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





BUILDING SECTION - FOYER

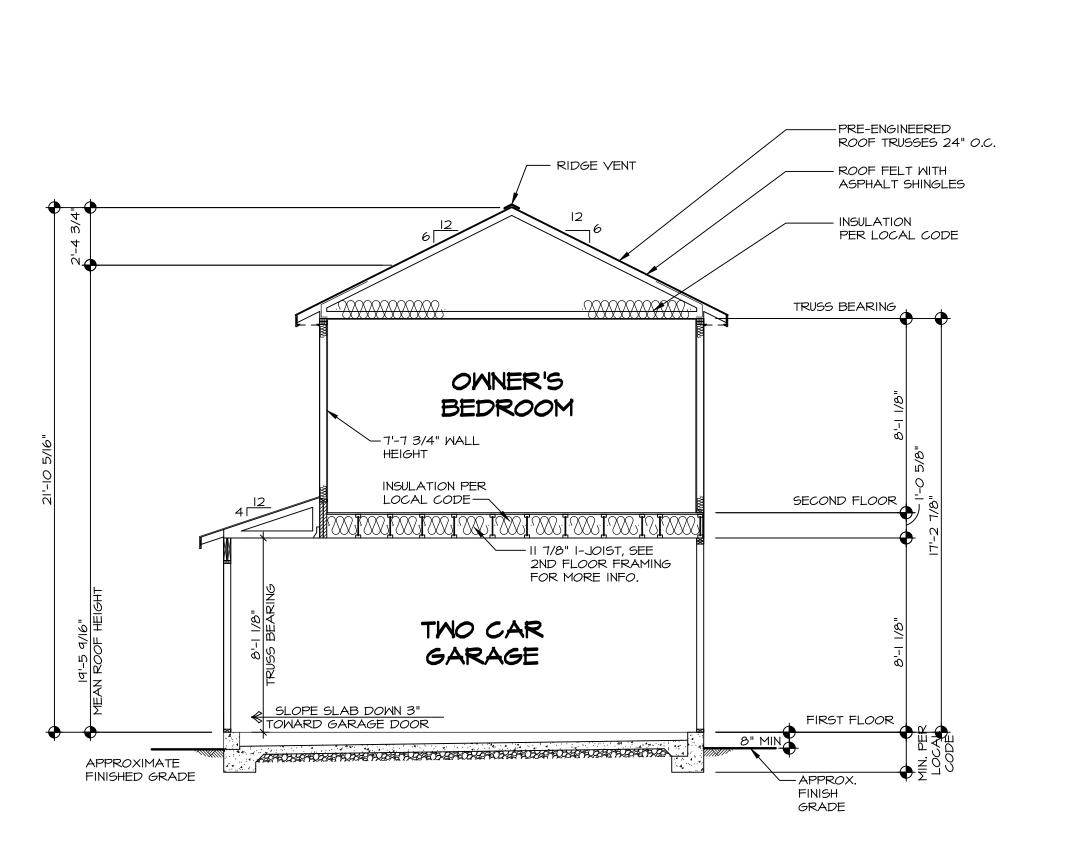
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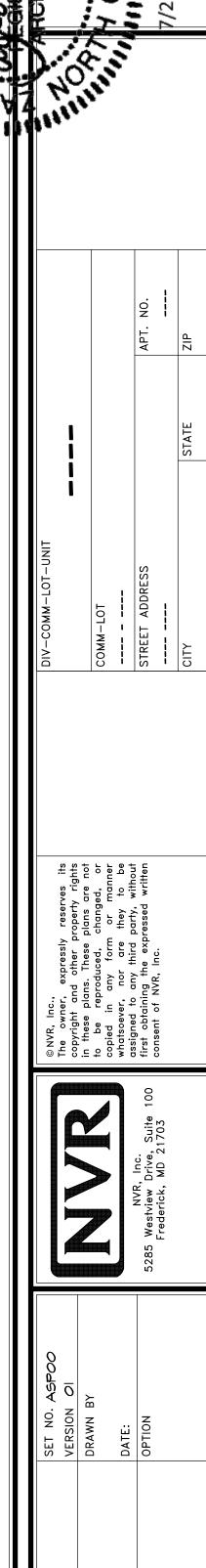
NVR, Inc. 5285 Westview Drive, Suite 10 Frederick, MD 21703

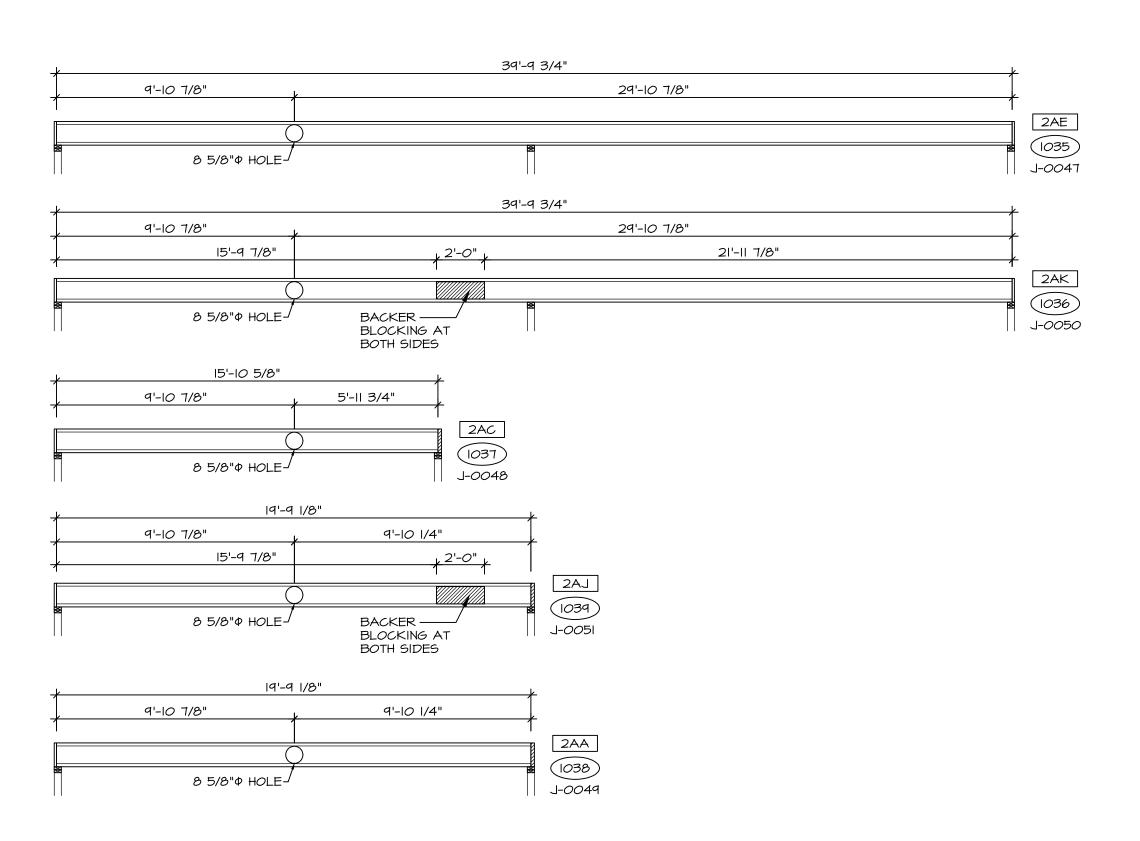
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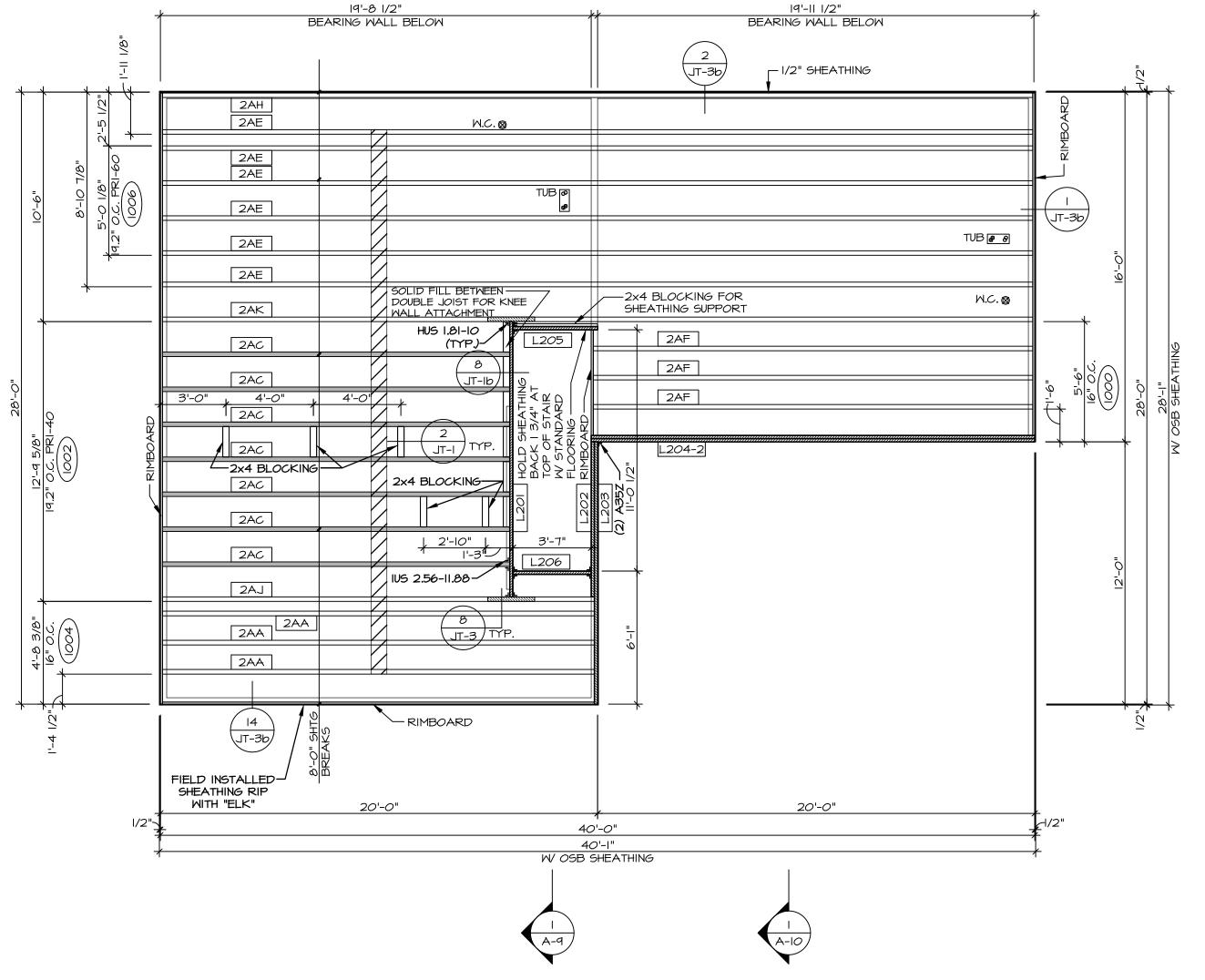
SPEN
WING TITLE
ILDING SECTION - FOYER
ON DESCRIPTION

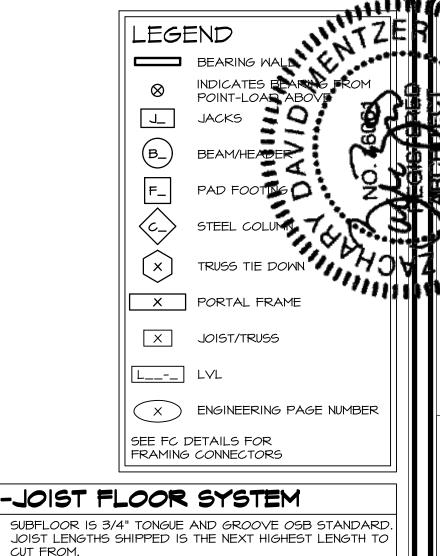
A











I-JOIST FLOOR SYSTEM

- . JOIST LENGTHS SHIPPED IS THE NEXT HIGHEST LENGTH TO 3. ALL RIMBOARD TO BE 1-1/8" THICK U.N.O. . REFER TO STANDARD DETAIL 7/JT-3 FOR HOLE CUTTING
- GUIDELINES. . PROVIDE RIMBOARD SOLID BLOCKING AT EXTERIOR WALLS AND BELOW ALL JACKS AS REQUIRED. REFER TO DETAIL 8/JT-3 FOR HANGER DETAIL.
- SCHEDULE FOR SPECIFIC SERIES PER MEMBER. A. PRI40 SERIES ARE SHOWN AS SHADED ON FRAMING B. SEE CONNECTOR / NAIL CHART IN STANDARD DETAILS

ALL JOISTS TO BE PRI40, PRI60 OR PRI80, REFERENCE

- (FC-4) FOR TYPICAL HANGERS. 1. ALL LVL BLOCKING CUT FROM 14'-O" MATERIAL. O. 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. APPLY GLUE TO TONGUE AND GROOVE.
- II. I-JOIST BLOCKING CUT FROM 2'-O" MATERIAL.

 12. ADHESIVE TO BE ADDED TO ALL JOIST HANGERS PRIOR TO SETTING JOISTS.

	SECOND FLOOR FRAMING LENGTH SCHEDULE							
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS				
2AA	PRI 60 - II-14	19'-9 1/8"		J-0049				
2AC	PRI 40 - II-I4	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 - II-14	39'-9 3/4"						
2AJ	PRI 60 - II-14	19'-9 1/8"	1012	J-0051				
2AK	PRI 60 - II-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)

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/ (3) ROWS I2D NAILS AT I2"O.C.

2.A - (2) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W (3) ROWS 16D NAILS AT 12" O.C. OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (4) ROWS 12D NAILS AT 12"O.C.

3.A - (2) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (5) ROWS 12D NAILS AT 12"O.C.

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

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

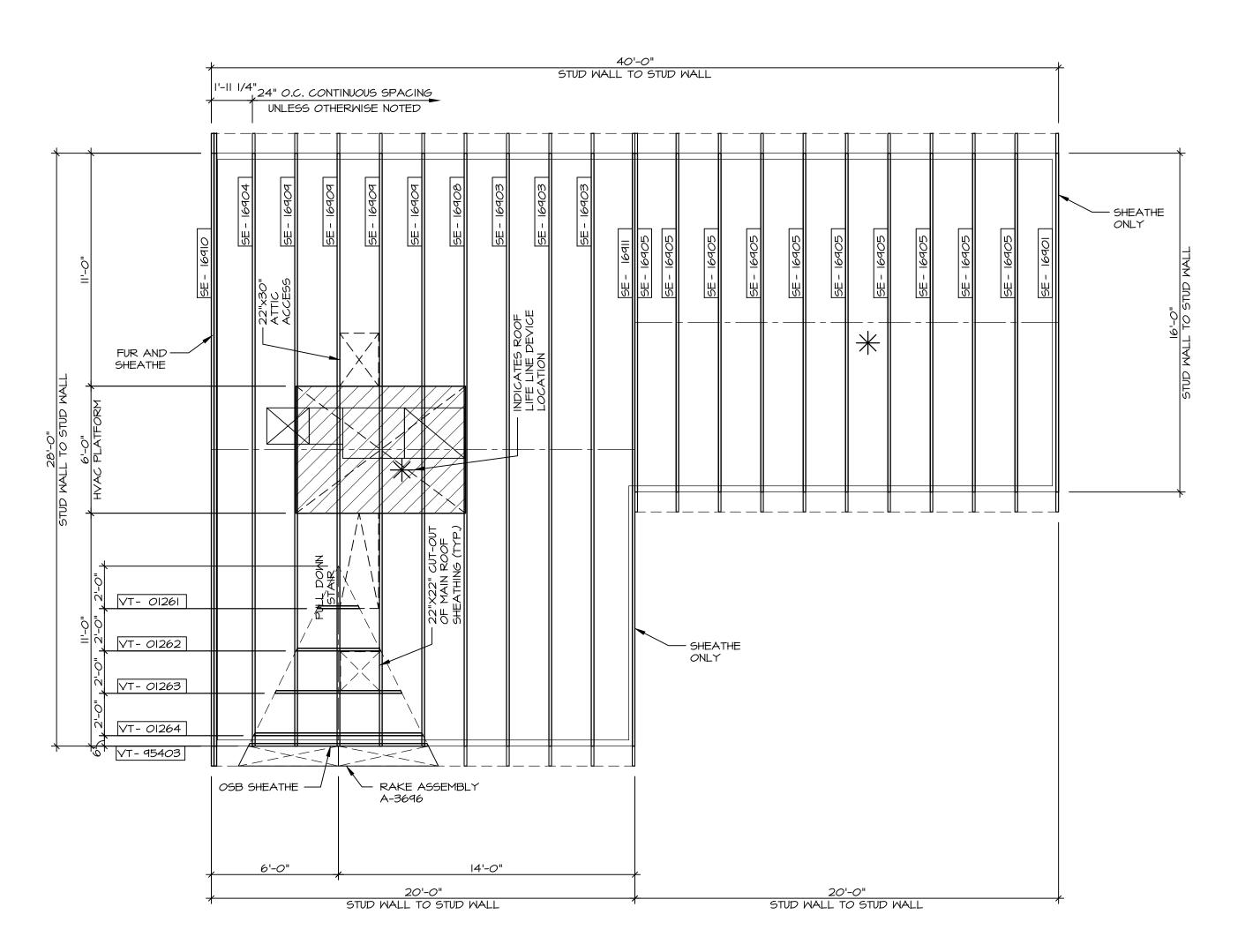
EACH SIDE OR ALT I 1/2" WIDE LVL FASTEN PLIES W (4) ROWS 12D NAILS AT 12"O.C. FROM EACH SIDE. 6.A - (3) PLY 20" TALL AND OVER: FASTEN PLIES W (4) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE

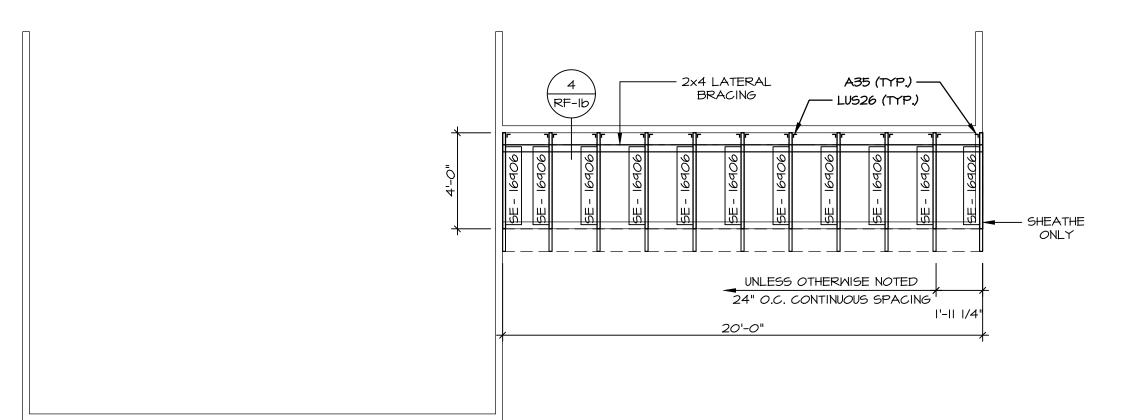
OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (5) ROWS 12D NAILS AT 12"O.C. FROM EACH SIDE. 7.A - (4) PLY (ALL SIZES): FASTEN PLIES W/ (2) ROWS I/2" DIAMETER A307 BOLTS AT 24" O.C. SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

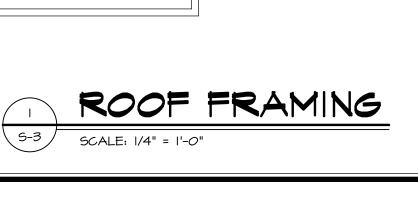


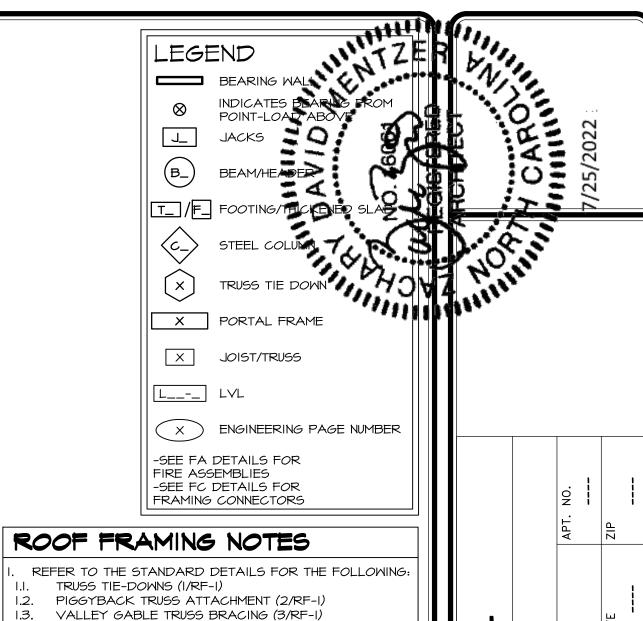
		TRUS	SS SCHEI	DULE	
QUANTITY	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/I2)	REMARKS
1	SE	16901	16'-0"	6/12	-
3	SE	16903	28'-0"	6/12	-
ı	SE	16904	28'-0"	6/12	-
10	SE	16905	16'-0"	6/12	-
II .	SE	16906	4'-0"	4/12	-
4	SE	16907	3'-10 1/2"	4/12	-
1	SE	16908	28'-0"	6/12	-
4	SE	16909	28'-0"	6/12	-
ı	SE	16910	28'-0"	6/12	-
ı	SE	16911	28'-0"	6/12	-
ı	VT	01261	2'-0"	12-6/12	-
ı	VT	01262	4'-0"	12-6/12	-
ı	VT	01263	6'-0"	12-6/12	-
ı	∨ T	01264	8'-0"	12-6/12	-
1	VT	95403	8'-6"	12-6/12	-

FIELD INSTALLED ROOF FRAMING BEAM/HEADER							
	SCHEDULE						
IDENTIFIER DESCRIPTION LENGTH ENG. NUM. REMARKS							
B30I BEAM BUILT 2X8 - 2 PLY RFF 6'-0" 1023							





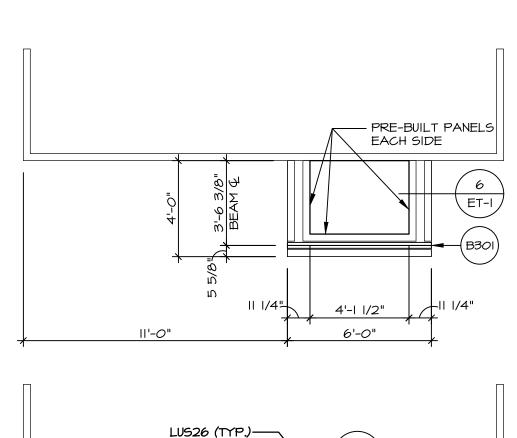


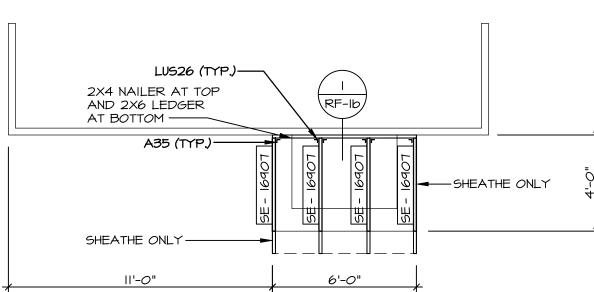


ROOF FRAMING NOTES

- I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I)
 I.3. VALLEY GABLE TRUSS BRACING (3/RF-I)
 I.4. GABLE BRACING (I/RF-IC)

- I.5. TURN GABLE BRACING (7/RF-I)
 I.6. TRUSS LATERAL BRACING (2/RF-IC)
- I.J. LIFELINE ATTACHMENT (5/RF-I)
 I.B. FALL PROTECTION ON PLATFORM TRUSS (II/RF-I)
 2. IF TRUSS DOES NOT APPEAR ON THE TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED.







OT

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----STATE
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Frederick, MD 21703

SET NO. ASPOOVERSION OIDRAWN BY

SING DETAILS

ASPEN
DRAWING TITLE
TRUSS BRACING D

ET NO.

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.

DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (4/RF-IC)

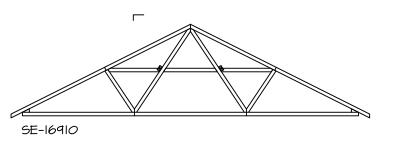
TRUSS BRACING NOTES

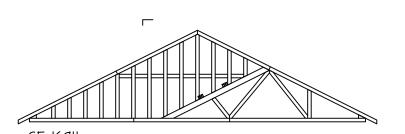
LIEU OF 2X4 LATERAL BRACING.

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

2. 2X4 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.

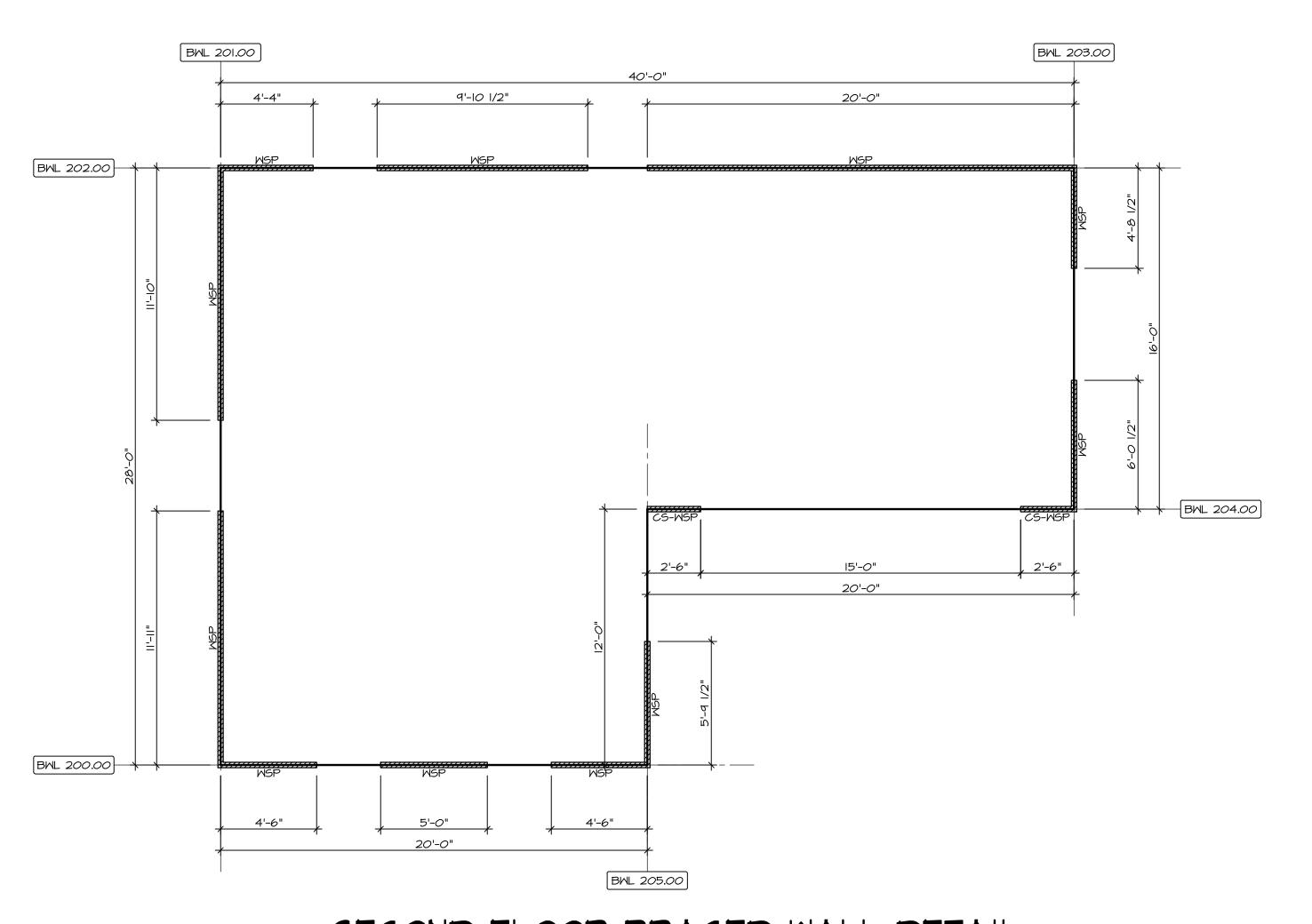
B. WEB "T" BRACE, DETAIL 3/RF-IC, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN



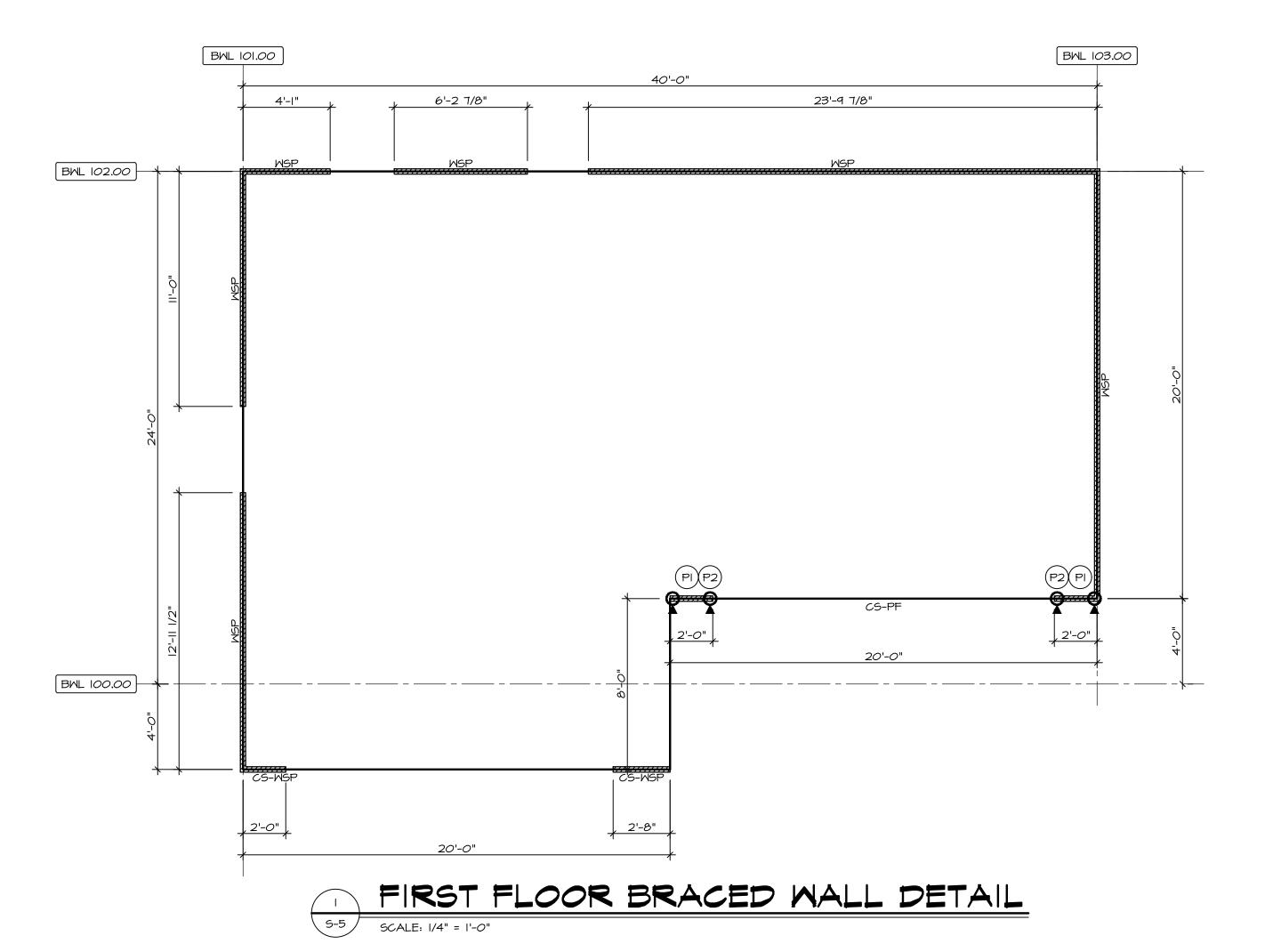


TRUSS BRACING DETAILS

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







SHEATHING		SPACING		
	FASTENER	ED6E5	FIELD	BWL XXX.XX
7/16" WOOD STRUCTURAL PANELS OR EQUIVALENT (W/ METHOD WSP, CS-WSP, CS-G)	8d COMMON NAILS	6" O.C.	12" O.C.	
	ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	12" O.C.	7/////////////////////////////////////
I/2" GYPSUM WALLBOARD	I-I/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	7" O.C.	7" O.C.	GB
(W/ METHOD GB-I, GB-2)	CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	7" O.C.	7" O.C.	<i>6</i> В-ВИ
LAMINATED FIBROUS	IOd X I I/4" GALVANIZED ROOFING NAILS	3" O.C.	3" O.C.	LIB
STRUCTURAL SHEATHING	I-I/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	3" O.C.	CS-MSP
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 I-I/4" DRYWALL SCREWS	4" <i>O.</i> C.	12" O.C.	CS-PF

- 2. SPECIFIED GYPSUM FASTENING REQUIRED ONLY WHER METHOD GB IS IDENTIFIED. SEE PHASE SPECS FOR TYPICAL GYPSUM FASTENER SPACING.
 3. USE OF STAPLES IN WOOD STRUCTURAL PANEL AS FASTENING METHOD ON WALLS PER ENGINEERED ALTERNATIVE.

	LEGEND	<u> </u>
NG FIELD	BML XXX.XX	BRACED WALL LINE I.D.
		BRACED WALL LINE
2" 0.C.		HOUSE WALL
2" <i>0.</i> C.		BRACED WALL PANEL
	MSP	WOOD STRUCTURAL PANEL
7" O.C.	GB	GYPSUM BOARD (I) SIDED OR (2) SIDED
7" O.C.	GB-BW	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (I) SIDED OR (2) SIDED (SEE STANDARD DETAIL G/WB/2)
3" <i>O.</i> C.	LIB	LET-IN BRACING (SEE STANDARD DETAIL F / WB-2)
3" <i>O.</i> C.	CS-MSP	CONTINUOUS SHEATHING - MOOD STRUCTURAL PANEL
2" <i>O.</i> C.	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
ERE	▶0	HOLD-DOWN I. SEE SHEET WB-2 "P_" INDICATOR SCHEDULE AND DETAILS 2. ARROW INDICATES LOCATION
	METHOD IN COMPI	ANALYZED UTILIZING A PRESCRIPTIVE LIANCE WITH INTERNATIONAL RESIDENTIAL ESS OTHERWISE NOTED.

ΝE	SCHEDULE		

BRACED WALL LINE SCHEDULE						
WIND SPEED (ULT)	IDENTIFIER	ACTUAL (FT)	REQUIRED (FT)	METHOD		
130 MPH	BWL 100.00	10.67'	7.94	CONTINUOUS (WITH GMB)		
130 MPH	BML 101.00	23.96'	11.40'	MSP (MITH GMB)		
130 MPH	BWL 102.00	34.14'	9.63'	MSP (MITH GMB)		
130 MPH	BWL 103.00	20.00'	10.93'	MSP (MITH GMB)		
130 MPH	BWL 200.00	14.00'	5.10'	MSP (MITH GMB)		
130 MPH	BWL 201.00	23.75'	7.14'	MSP (MITH GMB)		
130 MPH	BWL 202.00	34.21'	5.51'	MSP (MITH GMB)		
130 MPH	BWL 203.00	10.75'	5.76'	MSP (MITH GMB)		
130 MPH	BWL 204.00	5.00'	2.63'	CONTINUOUS (WITH GMB)		
130 MPH	BWL 205.00	5.79'	5.10'	MSP (MITH GMB)		