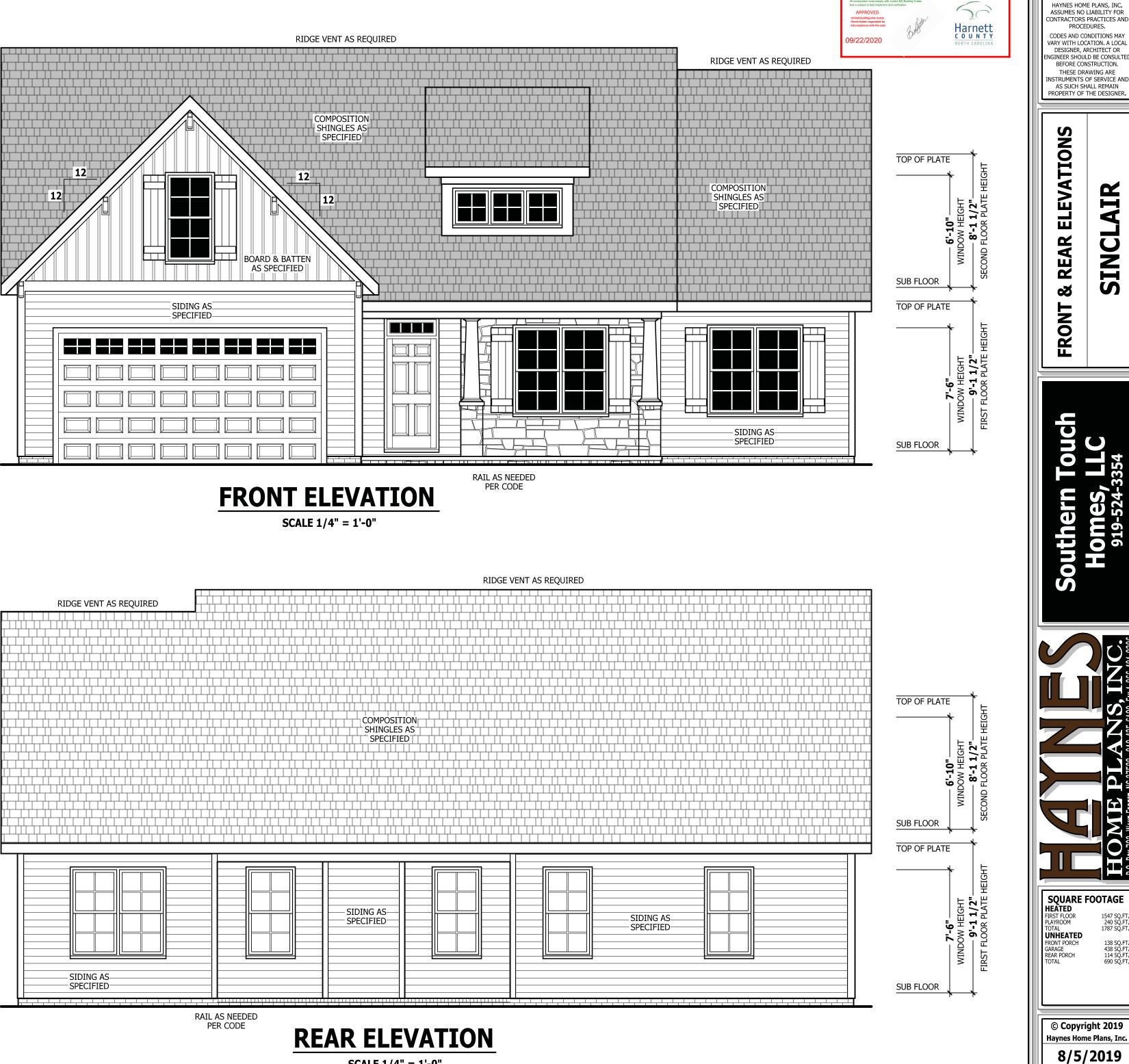
## **PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE**

MEAN ROOF HEIGHT: 18'-4" HEIGHT TO RIDGE: 24'-						
ZONE 3A	ZONE 4A	ZONE 5A				
0.35	0.35	0.35				
0.55	0.55	0.55				
0.30	0.30	0.30				
38 or 30ci	38 or 30ci	38 or 30ci				
15	15	19				
19	19	30				
5/13	10/15	10/15				
0	10	10				
	ZONE 3A 0.35 0.55 0.30 38 or 30ci 15 19	ZONE 3A         ZONE 4A           0.35         0.35           0.55         0.55           0.30         0.30           38 or 30ci         38 or 30ci           15         15           19         19           5/13         10/15				

\* CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19 \* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION \*\* INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF

FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"

COMPONENT	. & CLA	DDING	DESIG	NED FC	DR THE	FOLLO	WING	LOADS			
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'			
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4					
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9				
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2			
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9			
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4			
DESIGNED FOR WIN	DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"										
COMPONENT	COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS										
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'			
ZONE 1	16.7	-18.0	17.5	-18.9							
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9		-23.5			
ZONE 3	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5			
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3			
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9			



# **ROOF VENTILATION**

## SECTION R806

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,248 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 15 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.49 SQ.FT.

# **GUARD RAIL NOTES**

### SECTION R312

**R312.1 Where required.** *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, 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*.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions:

1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

2. Where the top of the *quard* also serves as a handrail on the open sides of stairs, the top of the *guard* shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required *guard* height which allow passage of a sphere 4 inches (102 mm)in diameter.

## Exceptions:

1. The triangular openings at the open side of a 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.

2. *Guards* on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

## **AIR LEAKAGE**

### Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code: 1. Blocking and sealing floor/ceiling systems and under knee walls

open to unconditioned or exterior space.

2. Capping and sealing shafts or chases, including flue shafts.

3. Capping and sealing soffit or dropped ceiling areas.



PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS EFORE CONSTRUCTION BEGINS

SINCLAIR

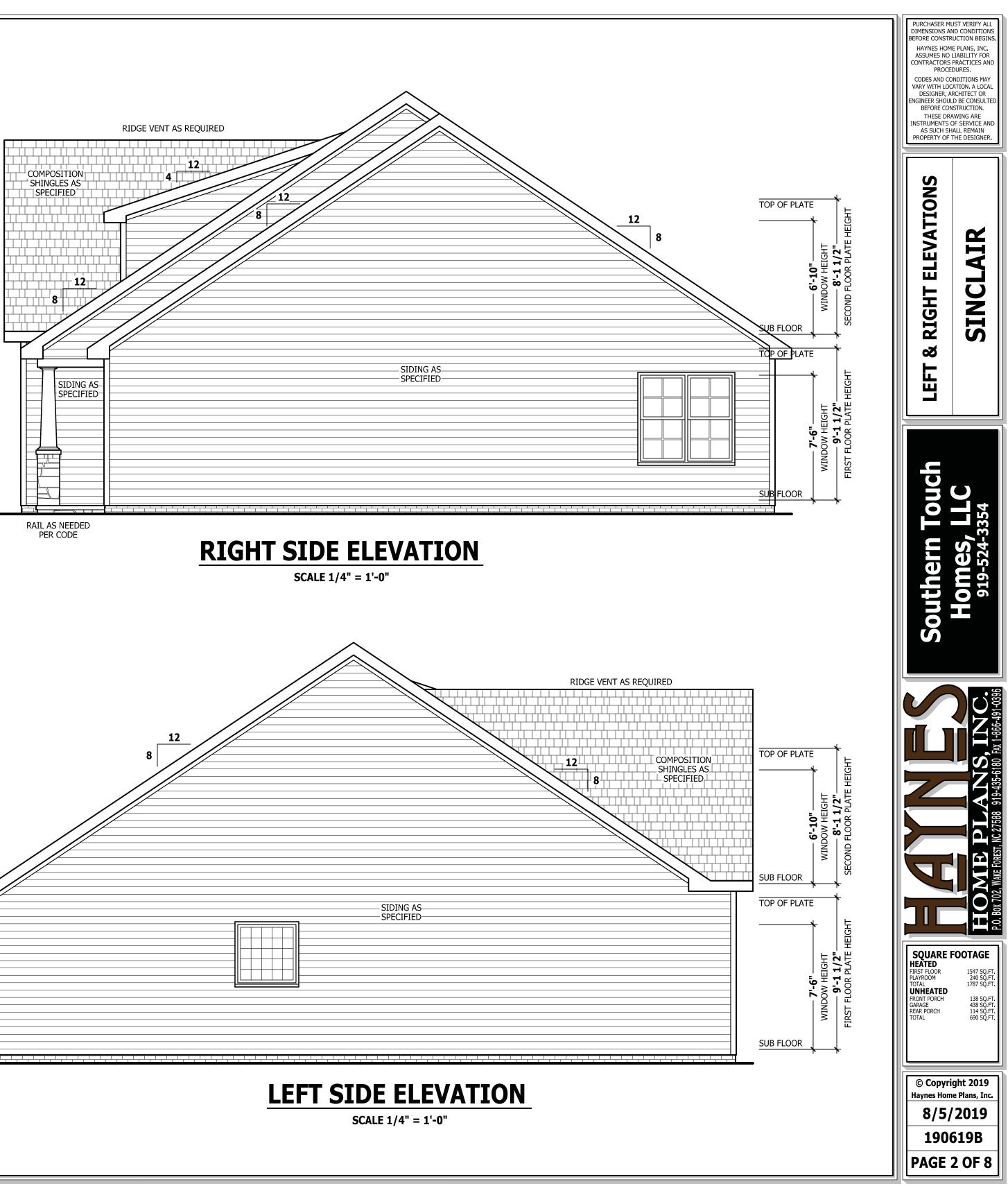
1547 SQ FT 240 SQ FT 1787 SQ FT

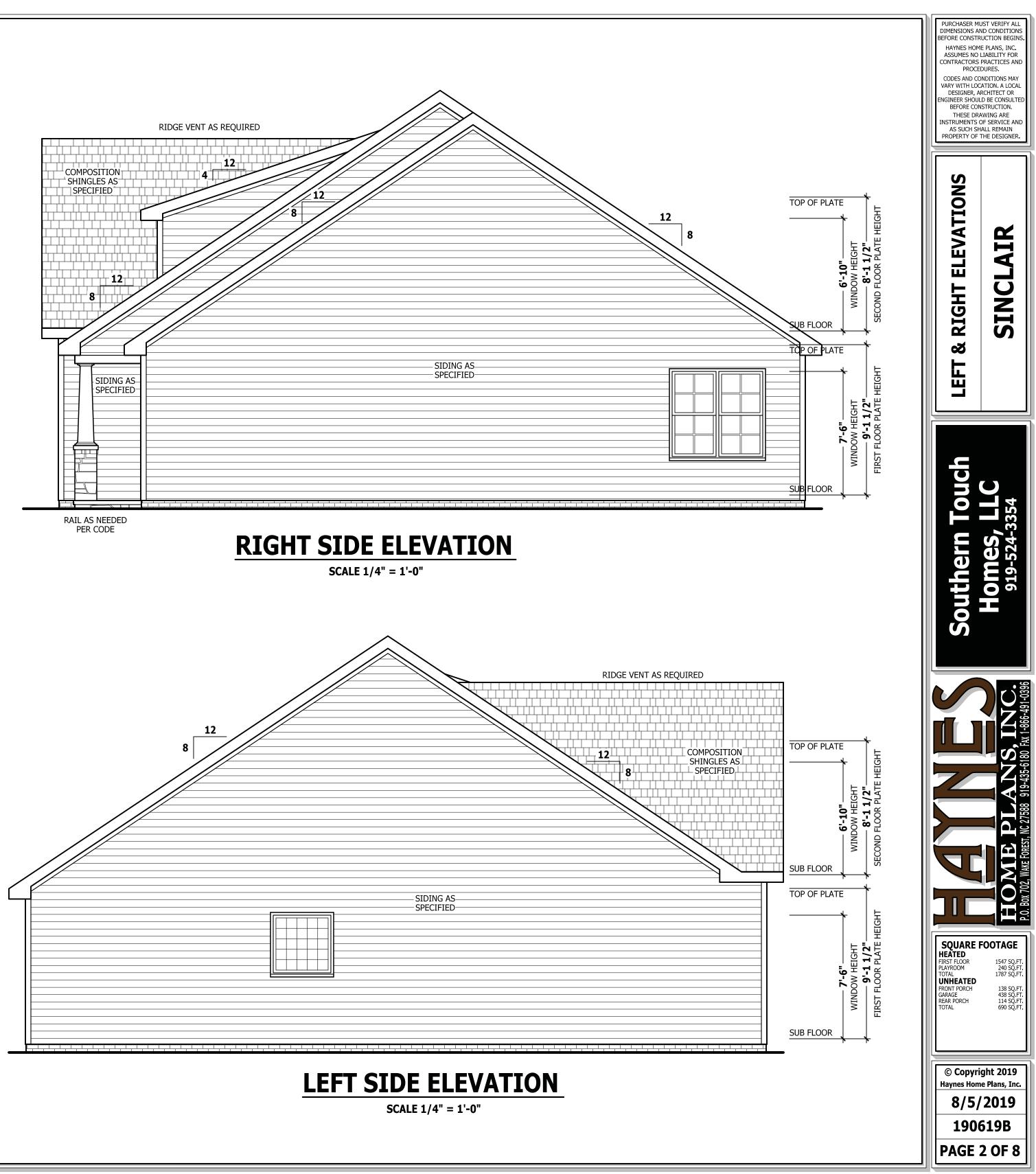
138 SQ.FT 438 SQ.FT 114 SQ.FT 690 SQ.FT

190619B

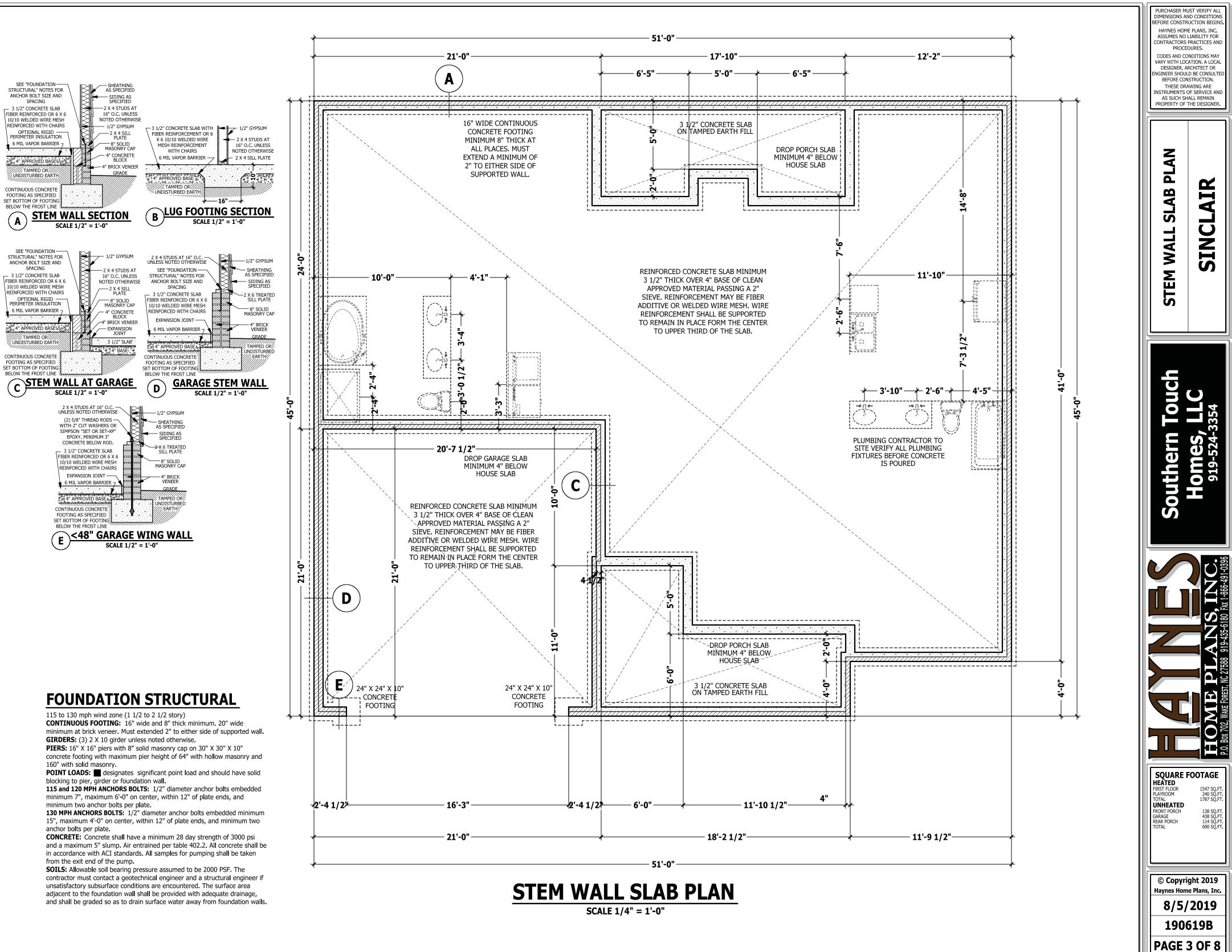
PAGE 1 OF 8

SCALE 1/4" = 1'-0"

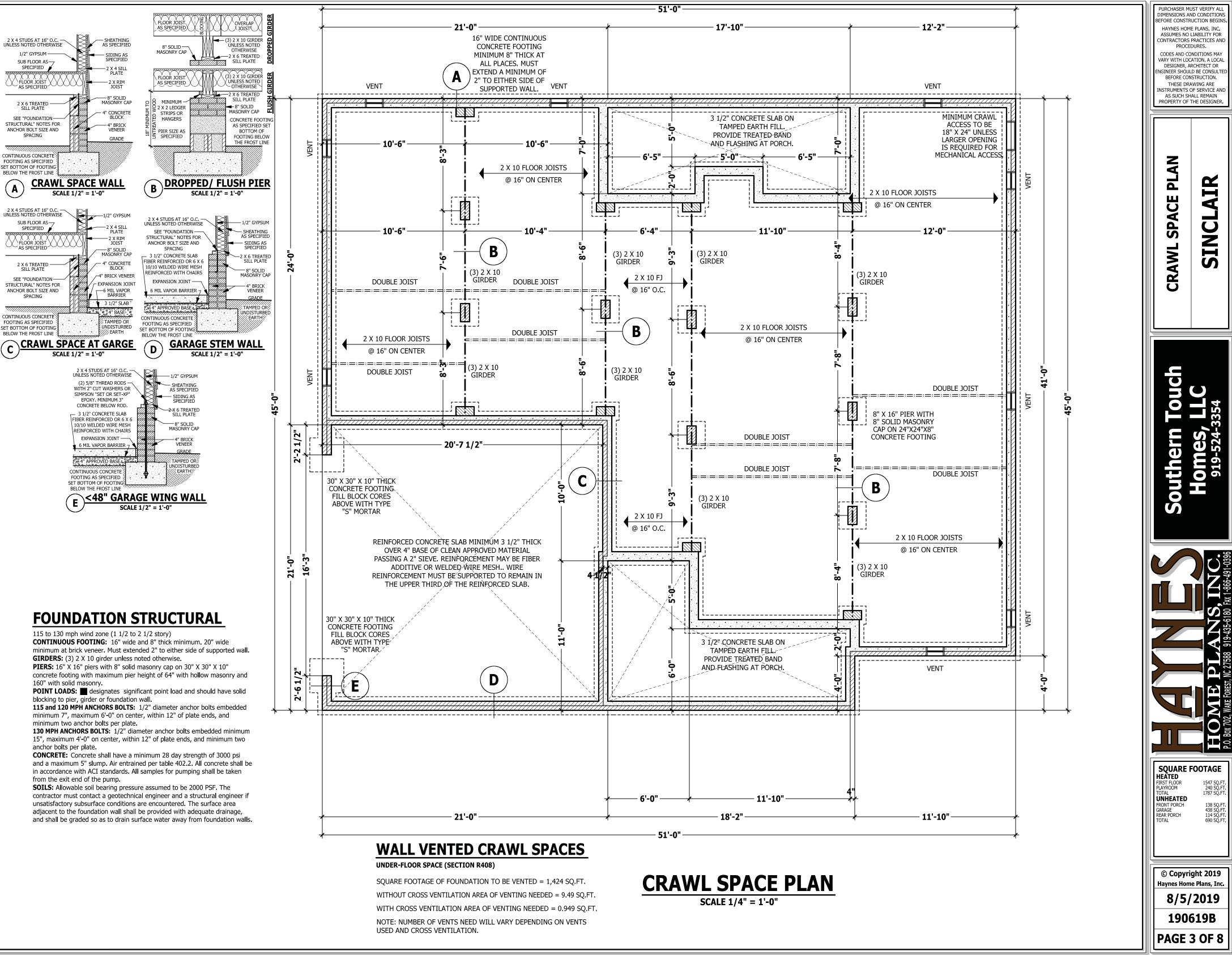




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# **ATTIC ACCESS**

### SECTION R807

**R807.1 Attic access.** An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net dear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

## **Exceptions:**

1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

## WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.

**Interior walls** are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

# **DWELLING / GARAGE SEPARATION**

REFER TO SECTIONS R302.5, R302.6, AND R302.7 **WALLS.** A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.

**STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways. CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.

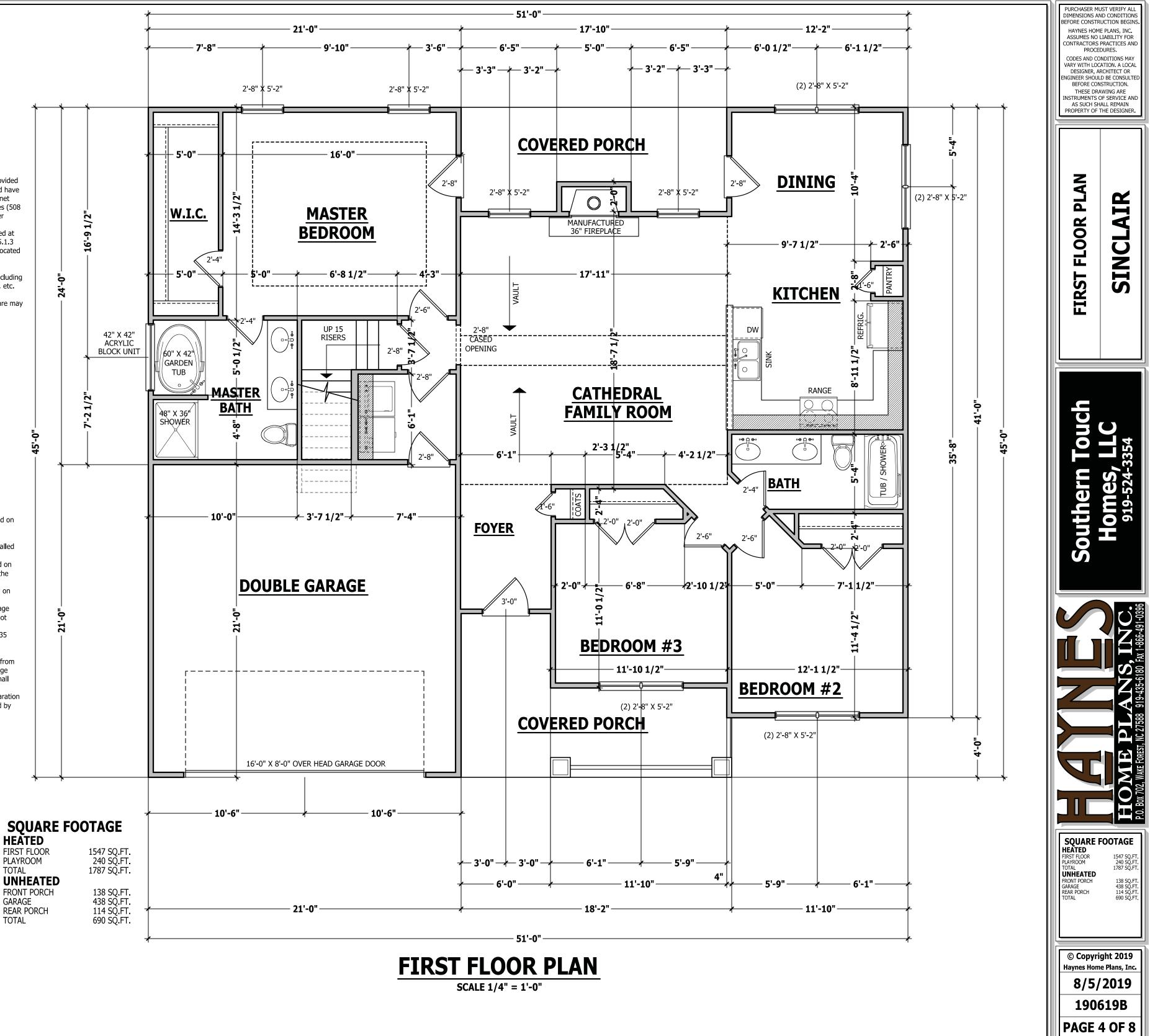
**OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

**DUCT PENETRATIONS.** Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

**OTHER PENETRATIONS.** Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302 11, Item 4

TOTAL

TOTAL





## **STRUCTURAL NOTES**

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

I.	5				
DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION		
USE	(PSF)	(PSF)	(LL)		
Attics without storage	10		L/240		
Attics with limited storage	20	10	L/360		
Attics with fixed stairs	40	10	L/360		
Balconies and decks	40	10	L/360		
Fire escapes	40	10	L/360		
Guardrails and handrails	200				
Guardrail in-fill components	50				
Passenger vehicle garages	50	10	L/360		
Rooms other than sleeping	40	10	L/360		
Sleeping rooms	30	10	L/360		
Stairs	40		L/360		
Snow	20				

**FRAMING LUMBER:** All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise. **ENGINEERED WOOD BEAMS**:

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters. **CONCRETE AND SOILS:** See foundation notes.

## **BRACE WALL PANEL NOTES**

EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.

GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

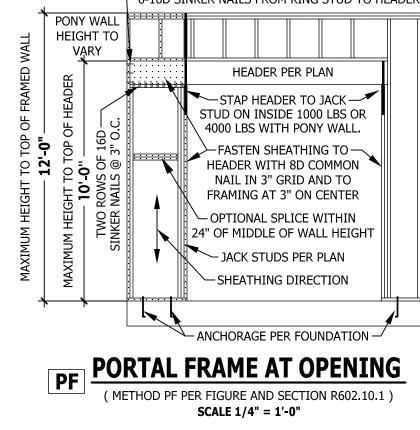
**REQUIRED LENGTH OF BRACING:** Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

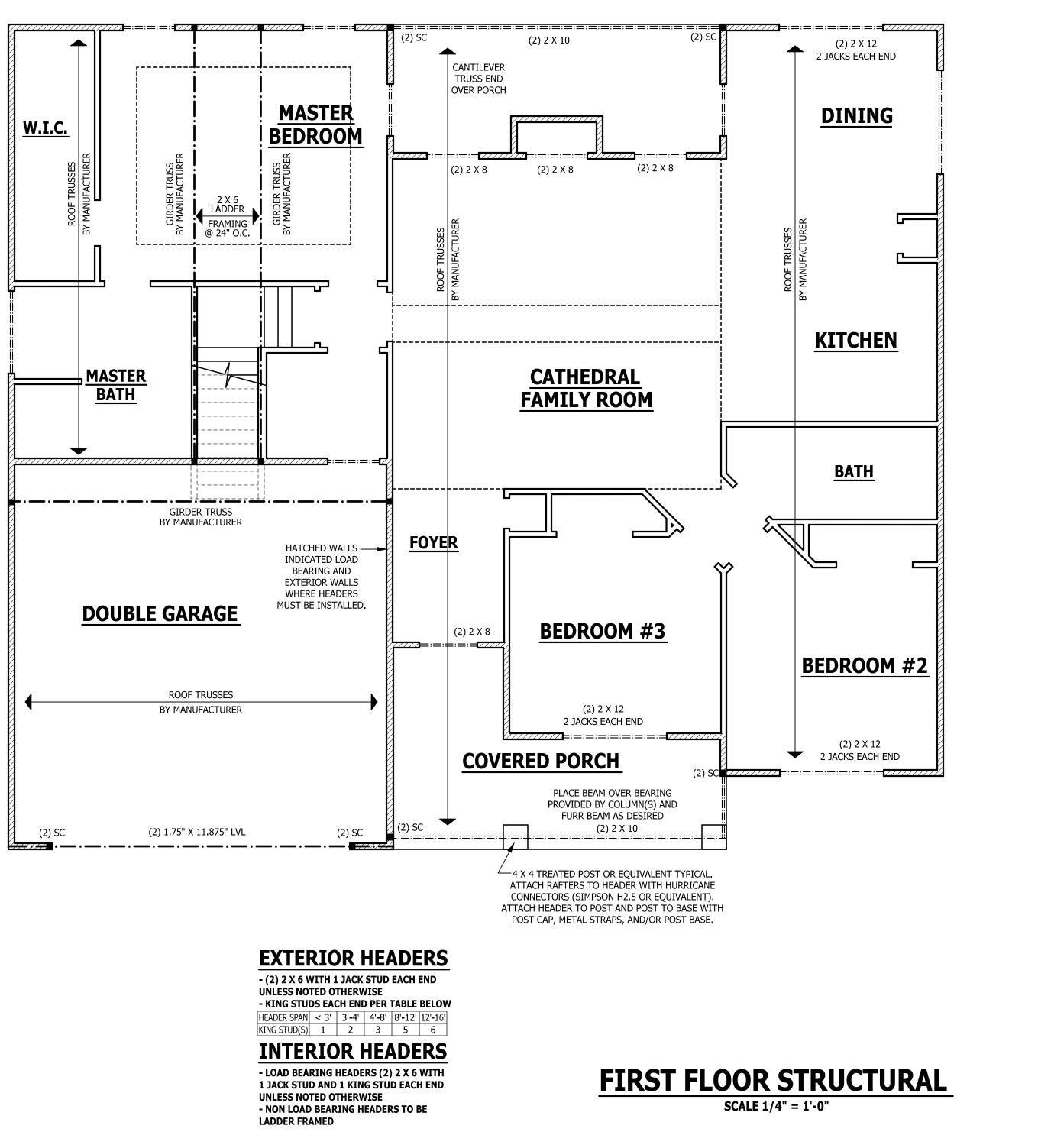
Methods Per Table R602.10.1

**CS-WSP**: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or  $8d(2 1/2" \log x 0.113" diameter)$ . **CS-SFB:** Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing nails.

**GB:** Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports wi minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

- 6-16D SINKER NAILS FROM KING STUD TO HEADER







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**ENGINEERED WOOD BEAMS :** 

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## **ATTIC ACCESS**

### SECTION R807

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### **Exceptions:**

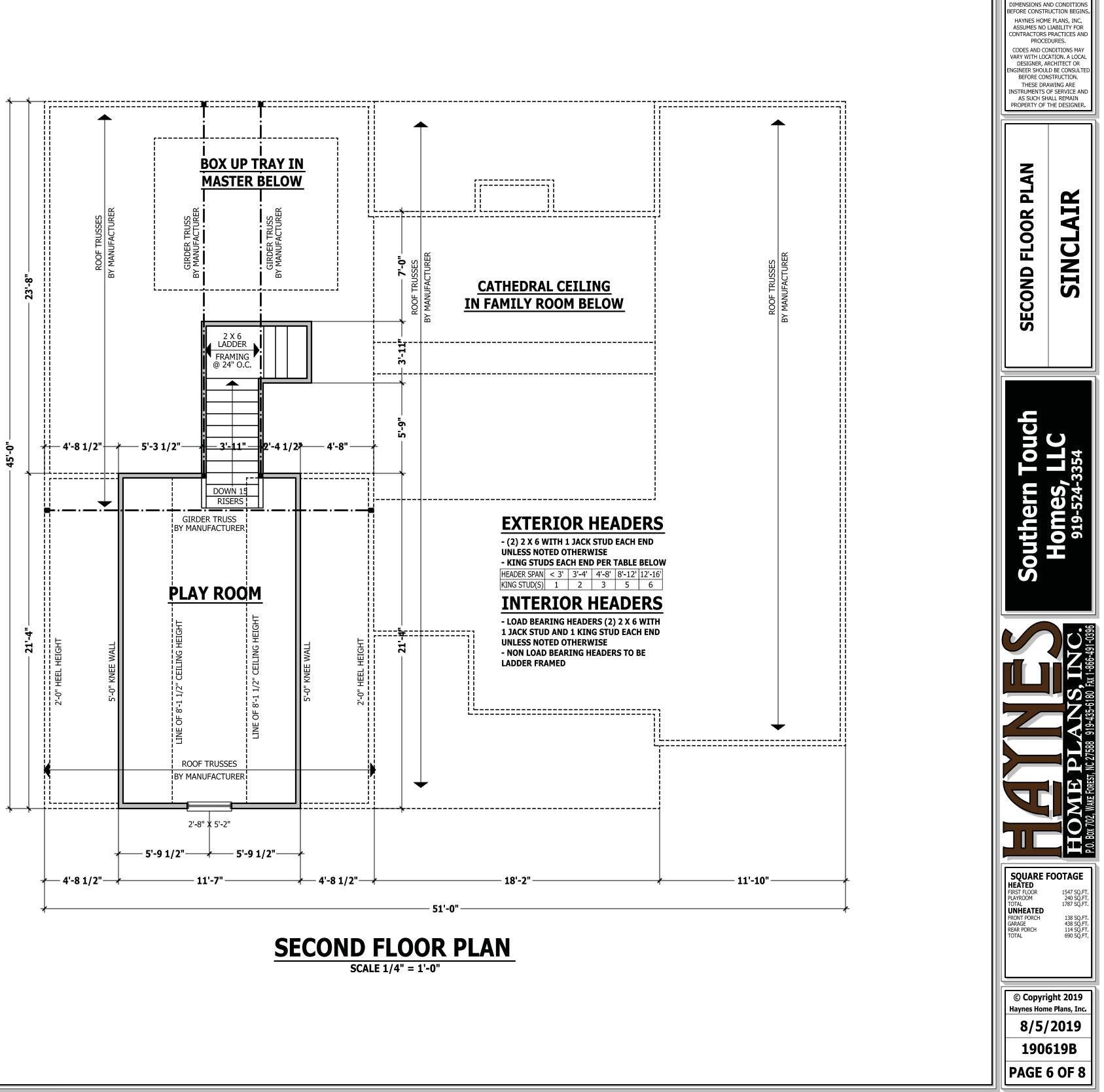
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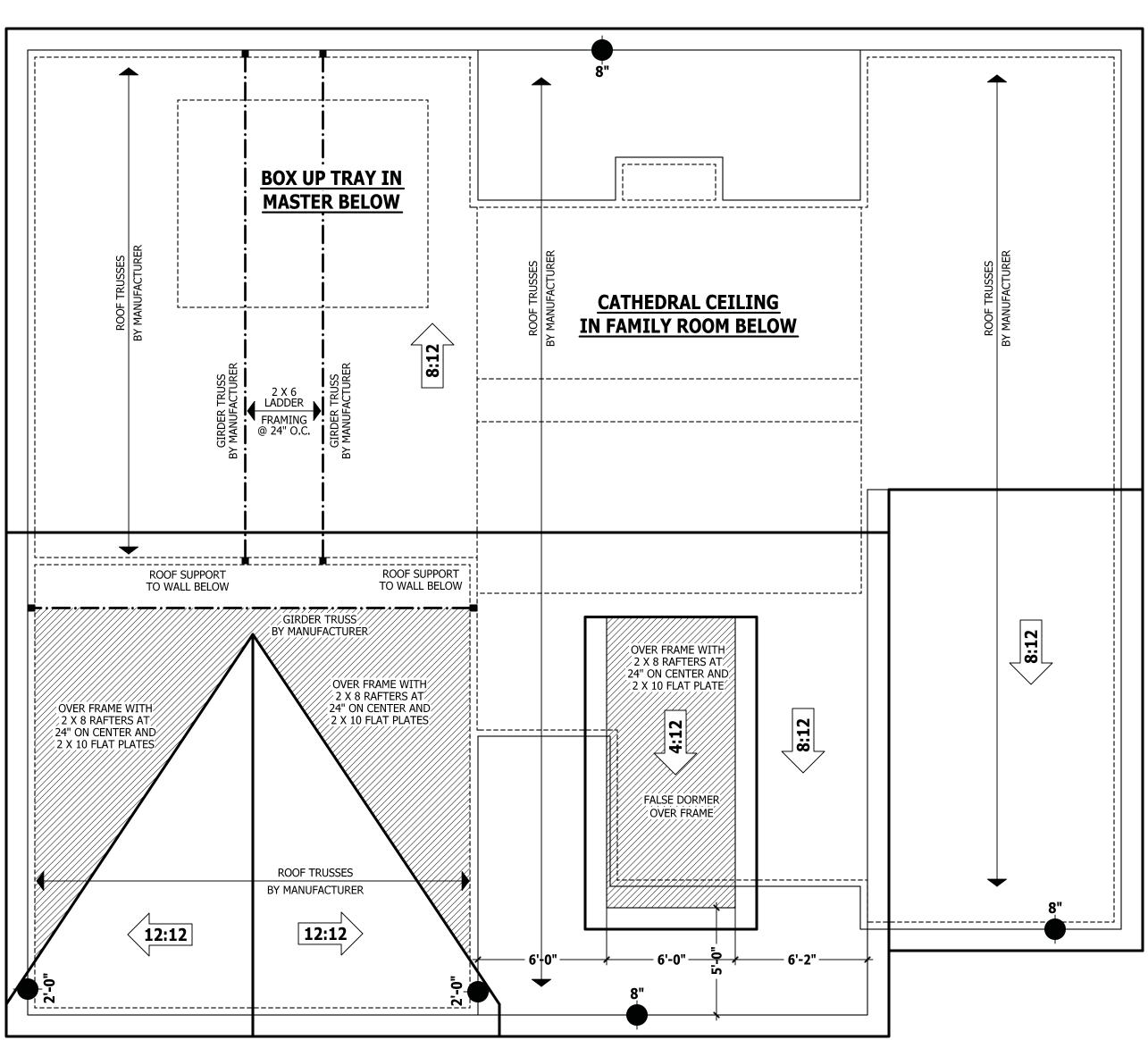
## WALL THICKNESSES

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**Interior walls** are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.



PURCHASER MUST VERIFY ALL

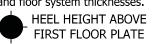


# **ROOF TRUSS REQUIREMENTS**

**TRUSS DESIGN.** Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

**ANCHORAGE.** All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. **BEARING.** All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

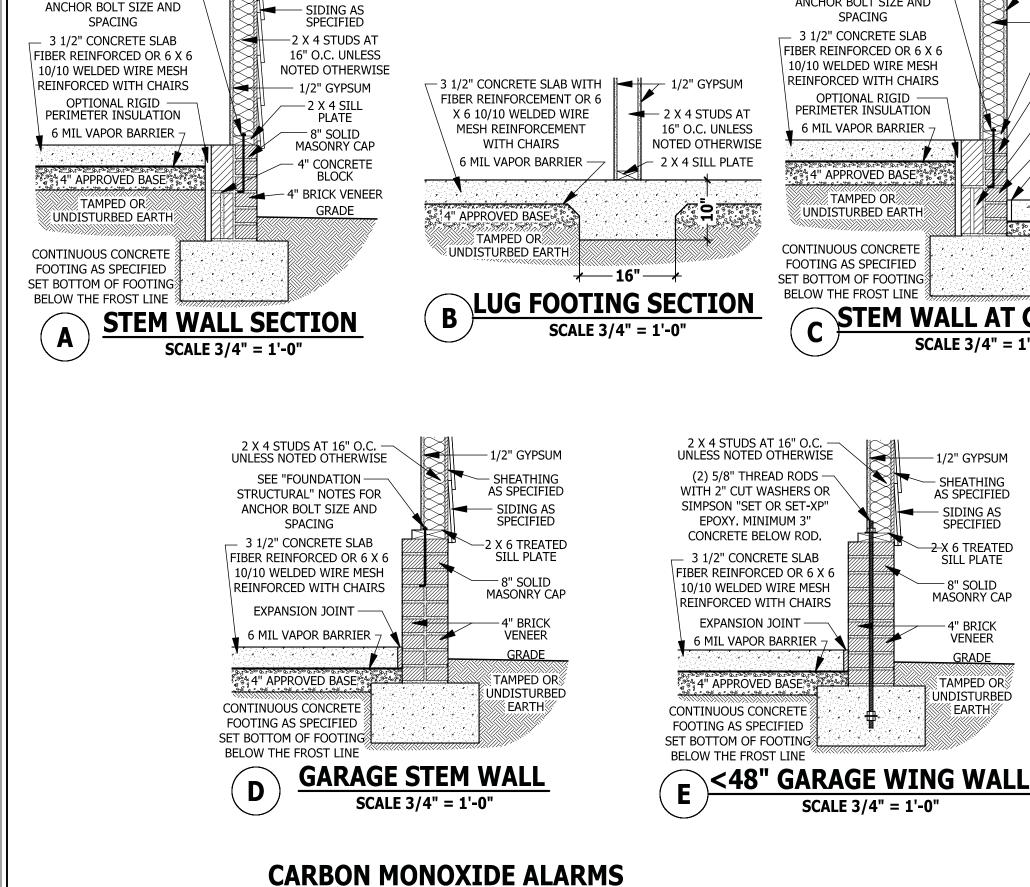


HEEL HEIGHT ABOVE SECOND FLOOR PLATE









SHEATHING

AS SPECIFIED

### SECTION R315

R315.1 Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed by the alarm manufacturer.

R315.2 Where required in existing dwellings. In existing dwellings, where interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section 315.1.

R315.3 Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions



All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

**R703.6.2.1** - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the

foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.

# **SMOKE ALARMS**

SEE "FOUNDATION -

1/2" GYPSUM

– 2 X 4 SILL

PLATE

8" SOLID

MASONRY CAP

4" CONCRETE

BLOCK

- EXPANSION

JOINT

3 1/2" SLAB

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**STEM WALL AT GARAGE** 

SCALE 3/4" = 1'-0'

1/2" GYPSUM

SHEATHING

AS SPECIFIED

SIDING AS

SPECIFIED

2-X 6 TREATED

SILL PLATE

8" SOLID

MASONRY CAP

4" BRICK

VENEER

GRADE

Tamped or

JNDISTURBED

EARTH

STRUCTURAL" NOTES FOR

ANCHOR BOLT SIZE AND

SPACING

Tamped or

SECTION R314 R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.

**Exception:** Where smoke alarms are provided meeting the requirements of Section R314.4.

**R314.3 Location.** Smoke alarms shall be installed in the following locations:

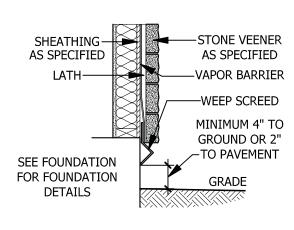
1. In each sleeping room.

2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.

3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In *dwellings* or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full *story* below the upper level.

When more than one smoke alarm is required to be installed within an individual *dwelling* unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

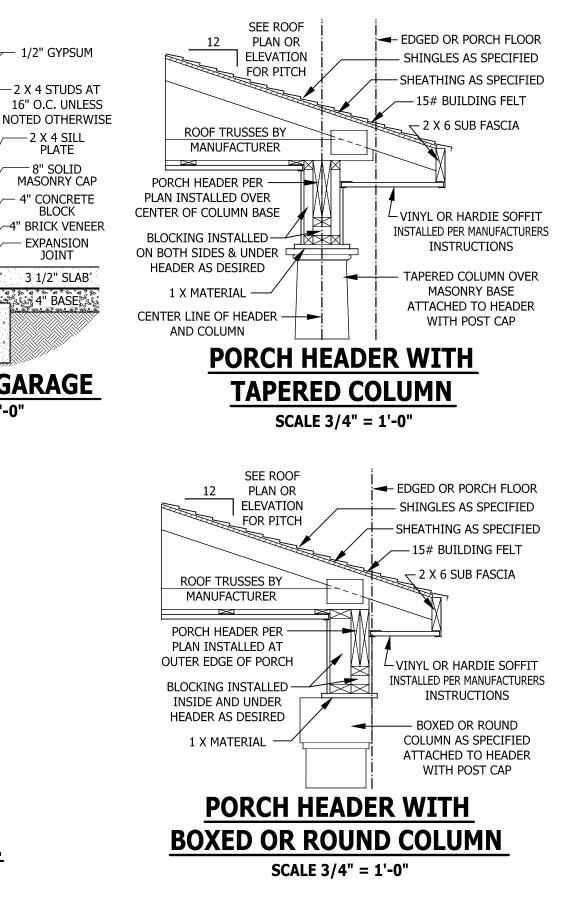
R314.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.



**WEEP SCREED** SCALE 3/4" = 1'-0"

Front Load.aec Left Sinclair Sinclair \190619B LLC\190619B Homes, chive\Builder\Southern Touch /E/Ar \\ARCHI\ SEE "FOUNDATION -

STRUCTURAL" NOTES FOR



# **STAIRWAY NOTES**

### R311.7

R311.7.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stairway.

R311.7.4 Stair treads and risers. Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. **R311.7.4.1 Riser height.** The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of

the adjacent treads. R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread denth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greater than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers

**R311.7.7 Handrails.** Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers.

**R311.7.7.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm). Exceptions:

1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.

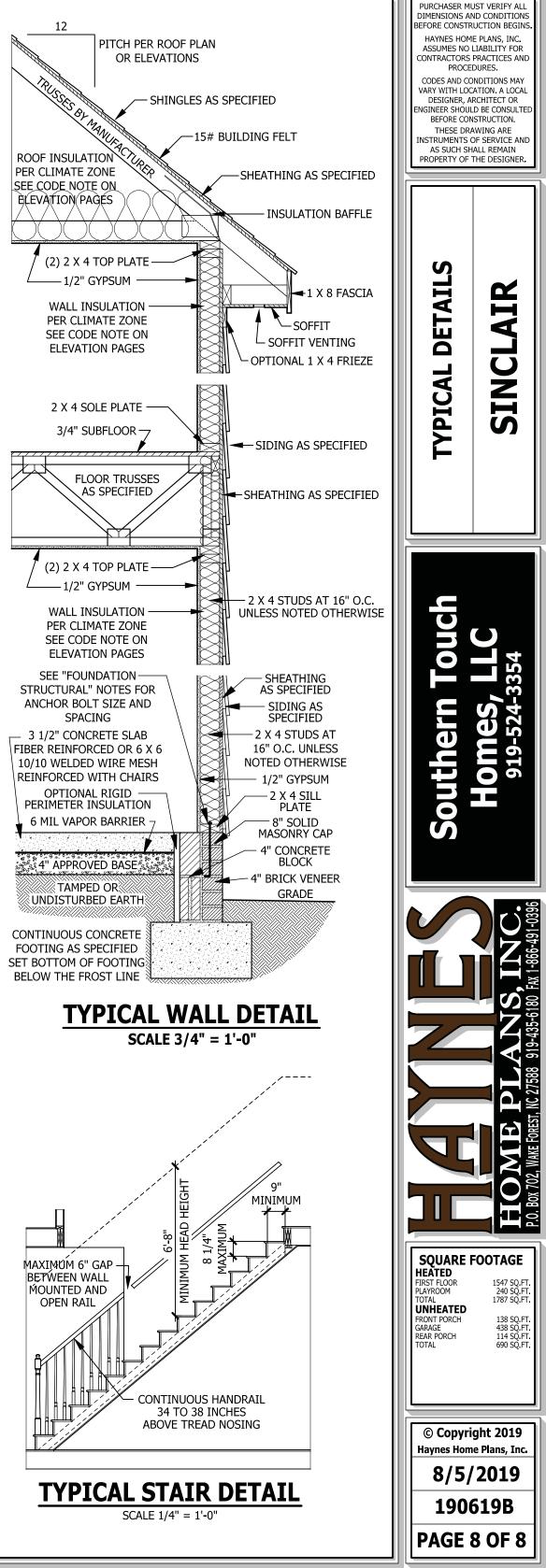
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

**R311.7.7.2 Continuity.** Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

### Exceptions

1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Two or more separate rails shall be considered continuous if the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.



	CONTECH ROOF & FLOOR TRUSSES & BEAMS Maily Road Industrial Park	Railly Road Industrial Park Faytteville, N.C. 28309 Phone: (310) 864-6787 Fac: (310) 864-6787 Fac: (310) 864-6787 and a series to respect to the series of a serie	LCOND CAURT FC/R JACK 57/UD5 LCOND CAURT FC/R JACK 57/UD5 Automatic and an anti-anti-anti-anti-anti-anti-anti-anti-	1 Dry Creek Rood / / Lenny Norris	ADDRESS DRAWN BY SALES REV. SALES REP.	sek Rood st	T Dry Cru Sinclair TE Seal Dat	108 NAM SEAL DAT GUOTE # 108 #	(i)
Image: second			ALLER BLOC BLOC BLOC BLOC BLOC BLOC BLOC BLOC	Ttannah / Noteilli.J		4.0.	tes Left End of Truss Engineered Truss Drawing)	Reactions are Less Unless Noted Otherwise.	ion Greater than 3,000 lbs. eaction / # of Studs
Reference     Reference     Reference     Reference		HEDRAL CERUNG	Participanti and		.0.5 .0.		Truss Placement Plan	SCALE: 1/4" = 1'-0"	
PlotID Front GDH BBO BBO BBO BBO BBO	21.0.	0	Ad A	5.0. 5.0. 5.0. 2.0. 5.0. 5.0. 2.0. 5.0. 5.0.	40 lbs. LME LOA	34 DBH	Products         Products           Length         Product         Plies         Net Qty           22' 0"         1-3/4"x 11-7/8" LVL Kerto-S         2         2	20'0" 13/4" x 9 1/4" Generic Material 2 4 6'0" 13/4" x 9 1/4" Generic Material 2 2	Estimation Selection Formula 1st Floor Roof Area

isD	esign	Client: SOUTHERN Project: Address:	TOUCH		by: Ler Name: SIN	7/2020 my Norris ICLAIR			Page 1 of
ront GDH	Kerto-S L	VL 1.750" X 11.	875" 2-Ply	- PASSED	Level:	Level			
			1						
• •		· · · · ·				•	• •		11 7/8
1 SPF End O	• •				•	• •	· · ·	rain	
T SPF End C	an		17'					-	3 1/2"
·			17'						
					_				
ember Info		Application:	Floor	Reactions Brg	Live	Dead	plift) Snow	Wind	Const
ype: Plies:	Girder 2		ASD	1	0	1779	0	0	0
Moisture Conditi	on: Dry		IBC/IRC 2015	2	0	1779	0	0	0
eflection LL:	480		No Not Charlend						
eflection TL:	360 Normal	Deck:	Not Checked						
mportance: emperature:	Normal Temp <= 100°F								
emperature.	Temp se too t			Bearings					
				Bearing I	ength	Cap. React D	/L lb Tot	al Ld. Case	Ld. Comb.
				1 - SPF 3	3.500"	17% 177	9/0 17	79 Uniform	D
				End Grain					
nalysis Resu		tion Allewood Connective	Comb. Cas	2 005	3.500"	17% 177	9/0 17	79 Uniform	D
,	Actual Loca 7157 ft-lb	ation Allowed Capacity 8'6" 17919 ft-lb 0.399 (40)		End					
	7157 ft-lb	8'6" 7161 ft-lb 0.999	D Unif	Grain					
Unbraced	107 100	(100%)							
Shear	1524 lb 1'2	2 5/8" 7980 lb 0.191 (19	%) D Unif	orm					
LL Defl inch	0.000 (L/999)	0 999.000 (L/0) 0.000 (0%							
TL Defl inch	0.381 (L/521) 8'6	1/16" 0.551 (L/360) 0.690 (69	%) D Unif	orm					
esign Note	s								
1 Fasten all pli	es using 2 rows of 10d	Box nails (.128x3") at 12" o.c. M	aximum end distance	not					
to exceed 6". 2 Refer to last		fasteners required for specified	loads.						
3 Girders are d	esigned to be supporte	d on the bottom edge only.							
	ist be supported equally	y by all plies. iximum of 13"7 7/8" o.c.							
6 Bottom brace	-	iximum of 137 776 0.0.							
	erness ratio based on s	single ply width.						-	
ID	Load Type	Location Trib Width	Side Dead				Const. 1.2		
1	Uniform			PLF 0 PLF	0 F	LF 0 PLF	0 PI	.F Gable En	d Wall
	Self Weight		9	PLF					
Notes		chemicals		provide proper drainage to	prevent Mar	ufacturer Info		Comtech, Inc. 1001 S. Reilly Ros	id, Suite #639
Notes Calculated Structured D	esigns is responsible only of the	Handling & Installation	ponding		Met	sä Wood Merritt 7 Building, 2	d Floor	Fayetteville, NC USA	
strend and a desired	this component based on the loadings shown. It is the stomer and/or the contractor to	<ol> <li>LVL beams must not be cut or drilled</li> <li>Refer to manufacturer's product in regarding installation requirements.</li> </ol>	formation multi-ply		Nor	walk, CT 06851 0) 622-5850		28314 910-864-TRUS	
design criteria and			CONTRACTOR OF A DESCRIPTION OF A DESCRIP		(80)	0.077-5850		-	
design criteria and responsibility of the cu ensure the component	nt suitability of the intended the dimensions and loads.	fastening details, beam strength values, approvals	and code		WW	w.metsawood.com/u	1		
design criteria and responsibility of the ou ensure the componer application, and to verity Lumber	nt suitability of the intended	fastening details, beam strength values,	and code		WW				тесн