

[illegible]

COMPONENT AND CLADDING FOR THE FOLLOWING LOADS	
MEAN ROOF	30° TO 90°
ZONE 1	13.1 -14.0 15.8 -14.7 15.1 -14.2 15.3 -14.7 15.7
ZONE 2	13.0 -13.0 13.0 -13.0 13.2 -13.2 13.2 -13.2 13.6
ZONE 3	13.1 -16.0 13.8 -16.9 13.3 -17.4 13.4 -17.6
ZONE 4	14.3 -15.0 15.0 -16.0 15.0 -16.0 15.0 -16.0
ZONE 5	14.3 -15.0 15.0 -16.0 15.6 -16.1 16.0 -16.3

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1. Exposed ceiling plaster or concrete, requiring less than 1 square foot (0.0929 sq. m.) of insulation may be vented with continuous soffit ventilation only.

2. Exposed attic joists, rafters, studs over unconditioned space may be vented continuously with soffit only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = LxWx SQ. FT.
NET FREE CROSS VENTILATION NEEDED:
WITH 80% TO 84% OF VENTING 3'-0" ABOVE EAVE = 9.55 SQ. FT.
WITH 86% TO 88% OF VENTING 3'-0" ABOVE EAVE, OR WITH CLASS I OVER-HEAD LIGHTS = 7.55 SQ. FT.
MAJOR RETARDER ON WARM-WINTER SIDE OF CEILING = 4.78 SQ. FT.

SECTION 33.12
33.12.1 Where required, guard rails 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. *Interim* screening shall not be considered as a guard.
33.12.2 Height required: guard rails at open-sided walking surfaces, including stairs, ramps, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, and shall meet or cross the line connecting the leading edges of the treads.
Exception:
1. Guards on the open sides of stairs shall have a height not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface.

K13.2.2 Where the top of the guardrail also serves as a handrail on the open side of stairs, the top of the guard shall not be less than 34 inches (864 mm) above the walking surface of the stairs.

K13.2.3 Opening limitations: Guarded openings shall not have openings of more than 19 inches (483 mm) measured vertically from a horizontal line at 102 inches (2590 mm) above the walking surface of the stairs.

Exceptions:

E1 The triangular openings at the open side of a stair, formed by the balustrade or handrail and the bottom rail of a guard shall not allow passage of a sphere 6 inches (152 mm) in diameter.

E2 Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.

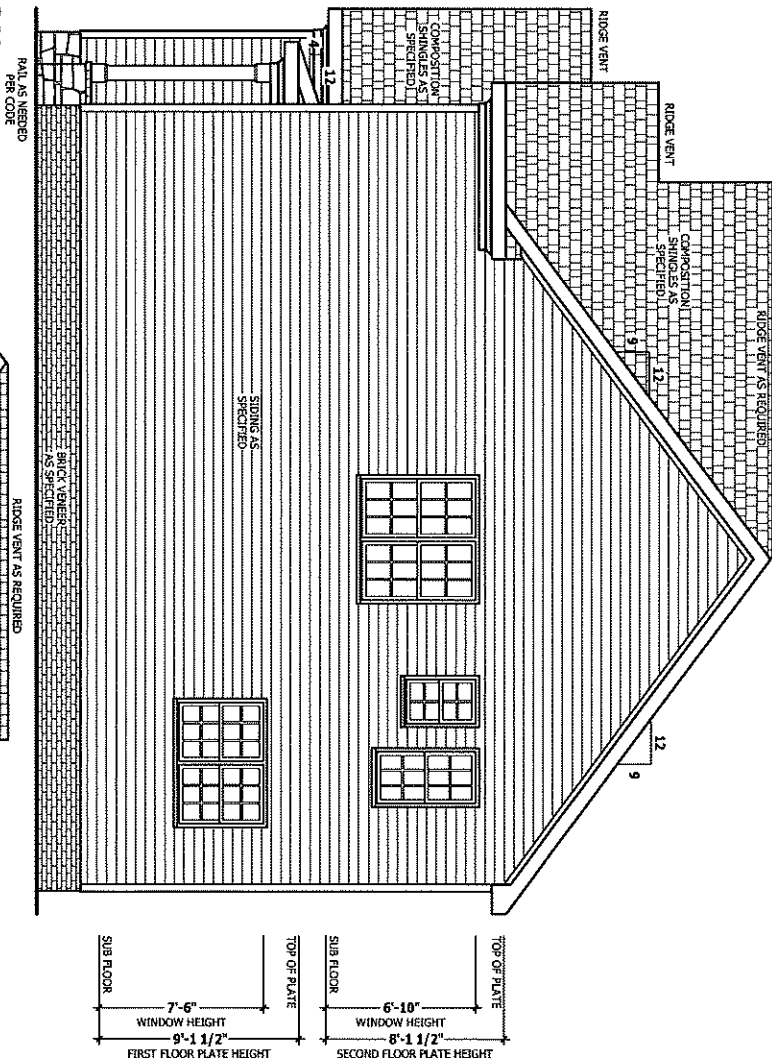
AIR LEAKAGE

SCALE 1/4" = 1'-0"



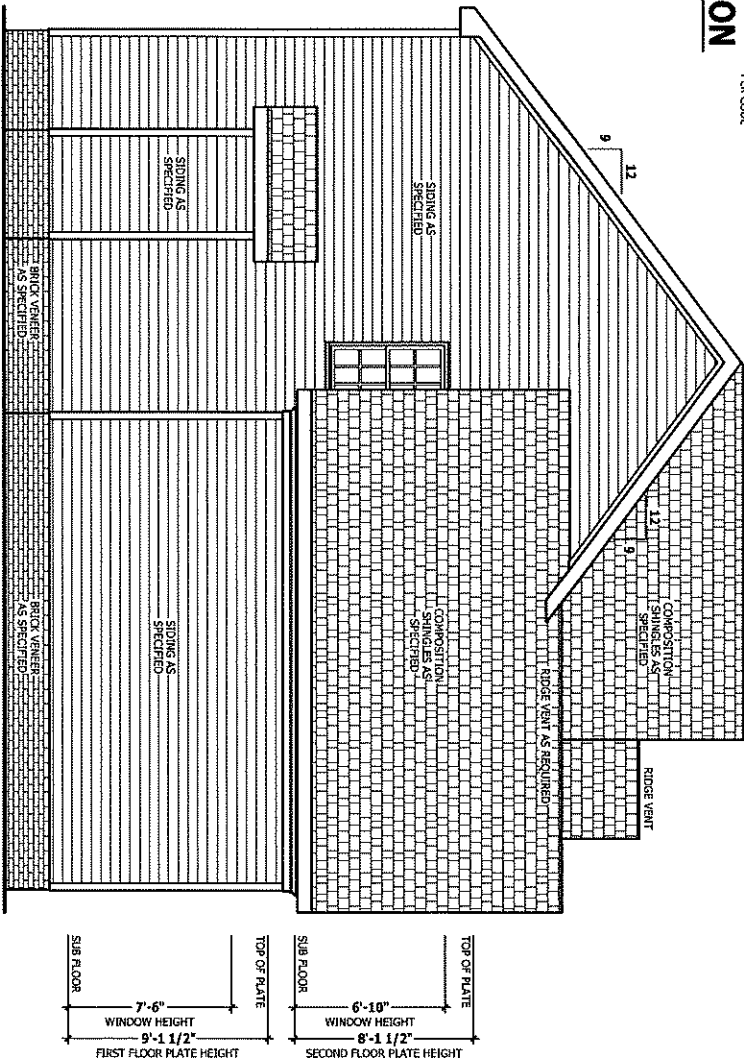
RIGHT SIDE ELEVATION

SCALE 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"



HAYNES
HOME PLANS, INC.

Genesis Building Co., Inc.
5450 OlsWake Forest Road
Suite 102
Raleigh, NC 27609

LEFT & RIGHT ELEVATIONS

Laurel Hill
160 Holden Farms

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WALL THICKNESSES

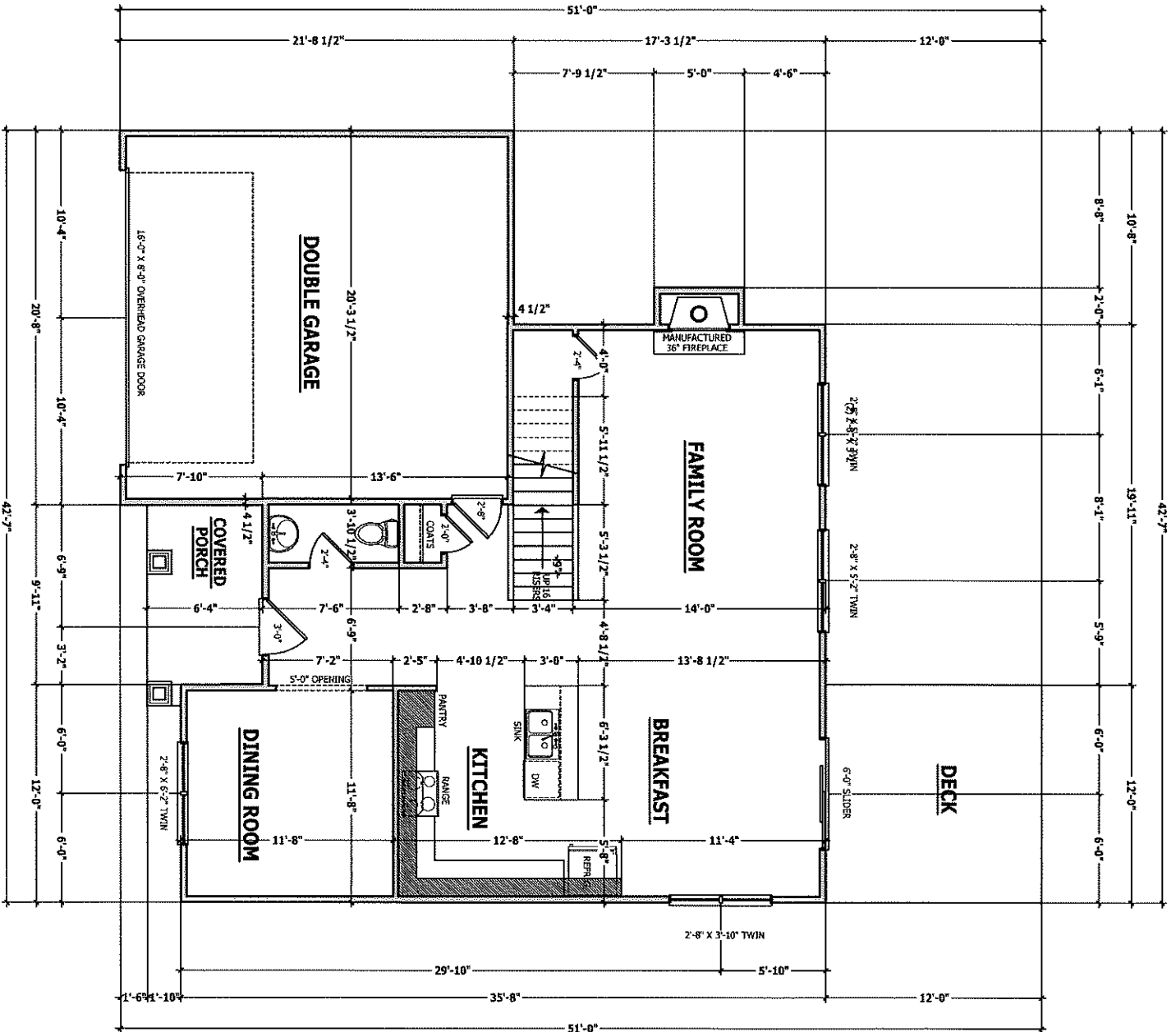
Exterior walls and walls adjacent to a garage area shall be constructed of 1/2" gypsum board. Interior walls shall be constructed of 5/8" gypsum board. All walls shall include 1/2" sheetrock or gypsum. Sheetrock 1/2" for stud faces. Interior walls are shown as 5/8" or as noted 2 x 6 are shown as 5/8", 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 ceiling of all stairs.
CEILING. A minimum of 1/2" gypsum board must be installed on the garage ceiling if there are no habitable rooms above the garage. If there are habitable rooms 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 core 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 1/2" galvanized steel sheet metal or other approved material and shall have no openings.
OTHER PENETRATIONS. Penetrations through the separation required in Section R302.5 shall be protected as required by Section R302.11, Item 4.

SQUARE FOOTAGE

HEATED	UNHEATED
FIRST FLOOR	518 SQ. FT.
SECOND FLOOR	1233 SQ. FT.
TOTAL	1751 SQ. FT.
SCREENED PORCH	26 SQ. FT.
DECK	144 SQ. FT.
GARAGE	440 SQ. FT.
TOTAL	649 SQ. FT.



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

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FIRST FLOOR PLAN

Laurel Hill
160 Holden Farms

A. HAYNES, INC. HAS DESIGNED ALL
DRAWINGS AND CONSTRUCTION
DETAILS TO BE USED IN THE
CONSTRUCTION OF THE HOME.
THESE DRAWINGS AND
CONSTRUCTION DETAILS ARE
THE PROPERTY OF A. HAYNES, INC.
AND ARE NOT TO BE REPRODUCED
OR USED IN ANY MANNER
WITHOUT THE WRITTEN
CONSENT OF A. HAYNES, INC.

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

JOBSITE PRACTICES AND SAFETY: Hyman Home Plans, Inc. assumes no liability for contractors' practices and procedures or safety program. Hyman 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 trained, supervised, and insured in accordance with good construction practices and the Building Code.

	RESIDENT LOADS	USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFL. (IN.)
Wood-frame storage	10	10	10	10	1/32
Office	10	10	10	10	1/32
Archives	40	40	10	10	1/32
Books with fixed racks	10	10	10	10	1/32
Belongings and desks	40	40	10	10	1/32
File cabinets	40	40	10	10	1/32
Guarded and unguarded	200	200	—	—	—
Guarded (incl. components)	50	50	10	10	1/32
Un guarded	50	50	10	10	1/32
Rooms other than sleeping	30	40	10	10	1/32
Sleeping rooms	30	40	10	10	1/32
Stairs	40	40	—	—	—
Roofs	20	20	—	—	—
Snow	—	—	—	—	—

FRAMING LUMBER: All non treated framing lumber shall be SYP #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.

Parallel strand lumber (PSL), $F_b=2800 \text{ PSI}$, $F_v=230 \text{ PSI}$, $E=2.0 \times 10^6 \text{ PSI}$
Laminated strand lumber (LSL), $F_b=2250 \text{ PSI}$, $F_v=400 \text{ PSI}$, $E=1.55 \times 10^6 \text{ PSI}$
Install all connections per manufacturer's instructions.

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TRUSS JOINTS. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plans, Inc. attention before construction begins.

KNEE WALLS AND CEILING HEIGHTS. All finished truss wall heights and ceiling heights are shown, turned down 1" from roof eave for installation. If for any reason the truss manufacturer fails to meet or exceeds these heights, the truss manufacturer must be notified immediately. If ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention.

TRUSS BRACING. A suitable solution can be adopted before construction begins. Any variation due to these conditions not being met, the responsibility of the truss manufacturer.

TRUSS MANUFACTURER'S INFORMATION. Trusses to be installed in accordance with these drawings and specifications. Any variation with these drawings must be brought to Haynes Home Plans, Inc. attention before construction begins.

BEARING. All husses shall be designed for bearing on SPF #2 planks or ledgers unless noted otherwise.

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

- (2) 2 X 6 WITH 1 JACK STUD EACH END
UNLESS NOTED OTHERWISE

HEADER SPAN	< 3'	3'-4'	4'-8'	8'-12'	12'-16'
KING STUD(S)	1	2	3	5	6

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END

**UNLESS NOTED OTHERWISE
- NON LOAD BEARING HEADERS TO BE
LADDER FRAMED**

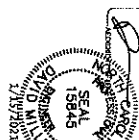
R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m²) and have a vertical height of 60 inches (1,524 mm) or greater. The net

clear 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-in (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.

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 seat treads, stringers, handrails, and hardware must protrude into the net clear opening.

Exterior walls and walls adjacent to a garage 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.



DAVID MILLER, PE
6300 CREDMOOR RD., SUITE 17
#363
RALEIGH, NC 27612
919-422-8932
dave@dma-pa.com
PROJECT NO.: 21DDM-0115A

STRUCTURAL MEMBERS ONLY