GARAGE FRONT WITH OPTIONAL SIDE LOAD

SCALE 1/8" = 1'-0"

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

MEAN ROOF HEIGHT: 18'-8	HEIGHT TO RIDGE: 25'-5"		
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION

*** INSULTION DEPTH WITH MONOLITHIC SLAB 24** OR FROM INSPECTION GAP TO BOTTOM OF FOUNDATION WALL. SLAB 24** OR TO BOTTOM OF FOUNDATION WALL.

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GOST [93 FASTEST MILE] EXPOSURE "B"								
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	14.2	-15.0	14.9	-15.8	15.5	16.4	15.9	-16.8
ZONE 2								-20.2
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 4								-17.9
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	21.8	17.4	-22.4
DESIGNED FOR WIN								
COMPONENT	& CLA	DDING	DESIG	NED FO	R THE	FOLLO	WING	LOADS
COMPONENT MEAN ROOF	& CLA	DDING O 30'	DESIG 30'-1"	NED FO TO 35'	35'-1"	FOLLO TO 40'	WING 40'-1"	LOADS TO 45'
COMPONENT MEAN ROOF ZONE 1	& CLA	DDING O 30'	DESIG 30'-1" 17.5	NED FO TO 35' -18.9	35'-1" 18.2	FOLLO TO 40' -19.6	WING 40'-1" 18.7	TO 45' -20.2
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7	DDING O 30' -18.0 -21.0	DESIG 30'-1" 17.5 17.5	NED FO TO 35' -18.9 -22.1	35'-1" 18.2 18.2	FOLLO TO 40' -19.6 -22.9	WING 40'-1" 18.7 18.7	TO 45' -20.2 -23.5
COMPONENT MEAN ROOF ZONE 1 ZONE 2 ZONE 3	& CLA UP T 16.7 16.7 16.7	DDING O 30' -18.0 -21.0 -21.0	DESIG 30'-1" 17.5 17.5 17.5	NED FO TO 35' -18.9 -22.1 -22.1	35'-1" 18.2 18.2 18.2	FOLLO TO 40' -19.6 -22.9 -22.9	WING 40'-1" 18.7 18.7 18.7	TO 45' -20.2 -23.5 -23.5
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7 16.7 18.2	DDING O 30' -18.0 -21.0 -21.0 -19.0	DESIG 30'-1" 17.5 17.5 17.5 19.1	NED FO TO 35' -18.9 -22.1 -22.1 -20.0	35'-1" 18.2 18.2 18.2 18.2	FOLLO TO 40' -19.6 -22.9 -22.9 -20.7	WING 40'-1" 18.7 18.7 18.7 20.4	TO 45' -20.2 -23.5 -23.5

ROOF VENTILATION

SECTION R806
R806.1 Ventilation required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

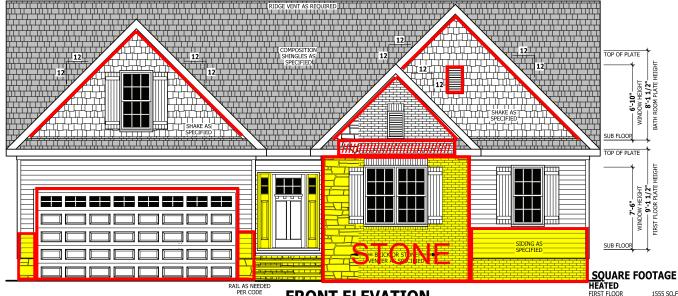
R806.2 Minimum area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,283 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 15.22 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 = 7.61 SQ.FT.

HVAC: CAROLINA COMFORT HEATING & AIR ELECTRIC: PIONEER ELECTRIC PLUMBING: DOUBLE J



AIR LEAKAGE

Section N1102.4

TOP OF PLATE

SUB FLOOR

SUB FLOOR

TOP OF PLATE

PLAYROOM PLATE HEIGHT

8'-11/2"

WINDOW HEIGHT

7'-2"

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:

 Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.
 Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.

FRONT ELEVATION

SCALE 1/4" = 1'-0"

1555 SO FT PALYROOM 264 SQ.FT.

LOT 4 ATKINS FARM ESTATES 194 SPRING HILL CHURCH RD

LILLINGTON, NO 3CG COVERED PORCH

> 1819 SQ.FT. HEATED OPTIONAL SECOND FLOOR

570 SQ.FT. 570 SQ.FT. UNHEATED

448 SQ.FT. 42 SQ.FT. 154 SQ.FT. GARAGE FRONT PORCH REAR PORCH TOTAL 644 SQ.FT. UNHEATED OPTIONAL

THIRD GARAGE TOTAL 298 SQ.FT. 298 SQ.FT.



REAR ELEVATION SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS EFORE CONSTRUCTION BEGINS

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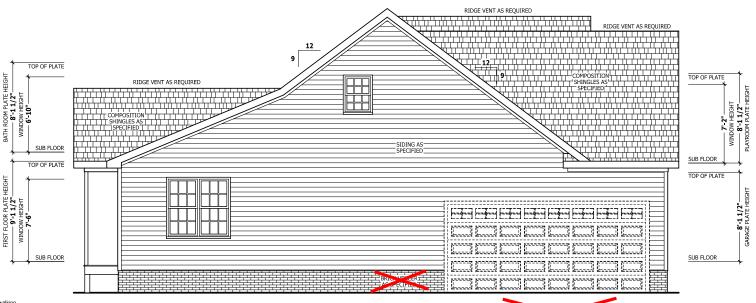
ELEVATIONS The Halifax & REAR

FRONT

SQUARE FOOTAGE HEATED TOTAL 1819 SQ.FT
HEATED OPTIONAL
SECOND FLOOR 570 SQ.FT
TOTAL 570 SQ.FT UNHEATED RONT PORCH UNHEATED OPTIONAL

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PAGE 1 OF 8



GUARD RAIL NOTES

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:**

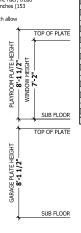
 Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the

2. Where the top of the *guard* 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:

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).

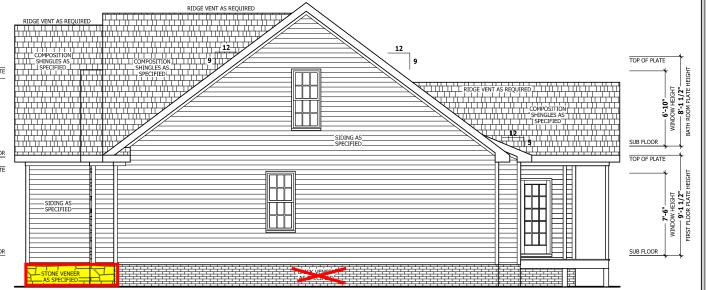
Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.





SCALE 1/4" = 1'-0"

OPTIONAL SIDE LOAD GARAGE



RIGHT SIDE ELEVATION

SCALE 1/4" = 1'-0"

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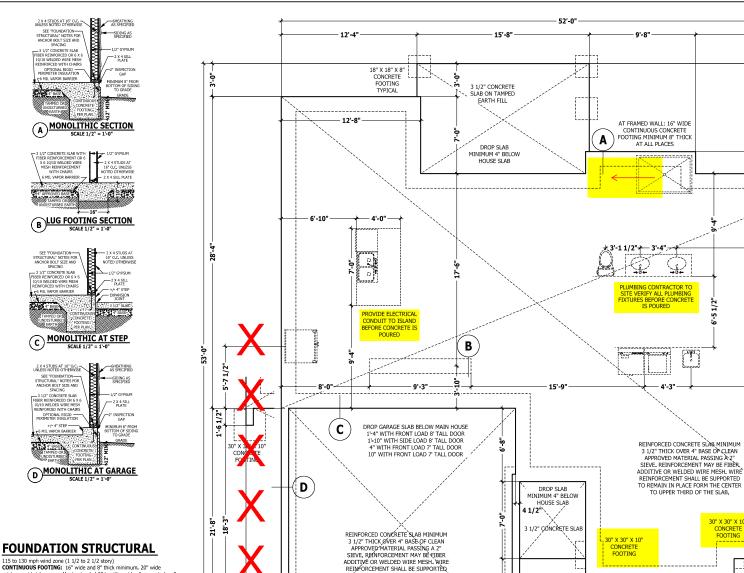
ELEVATIONS The Halifax SIDE

SQUARE FOOTAGE HEATED

UNHEATED RONT PORCH REAR PORCH UNHEATED OPTIONAL

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PAGE 2 OF 8



TO REMAIN IN PLACE FORM THE CENTER'

TO UPPER THIRD OF THE SLAB.

21'-8'

CONCRETE FLOTIN

IDE LOAD

CARACE

1'-8 1/2"

CONTINUOUS FOOTING: 16" wide and 8" thick minimum. 20" wide inimum at brick veneer. Must extended 2" to either side of supported wall. GIRDERS: (3) 2 X 10 girder unless noted otherwise.

PIERS: 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry.

POINT LOADS: designates significant point load and should have solid

blocking to pier, girder or foundation wall.

115 and 120 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

130 MPH ANCHORS BOLTS: 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.

CONCRETE: Concrete shall have a minimum 28 day strength of 3000 psi

and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

SOILS: Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

MONOLITHIC SLAB PLAN

8.-0

1'-8 1/2"

24"X24"X10" CONCRETE FOOTING

SCALE 1/4" = 1'-0"

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AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

PLAN SLAB Halifax MONOLITHIC The

16'-0 1/2"

2'-10" → 2'-8"

10'-10"

30" X 30" X 10"

CONCRETE

FOOTING

13'-6"

ė

35

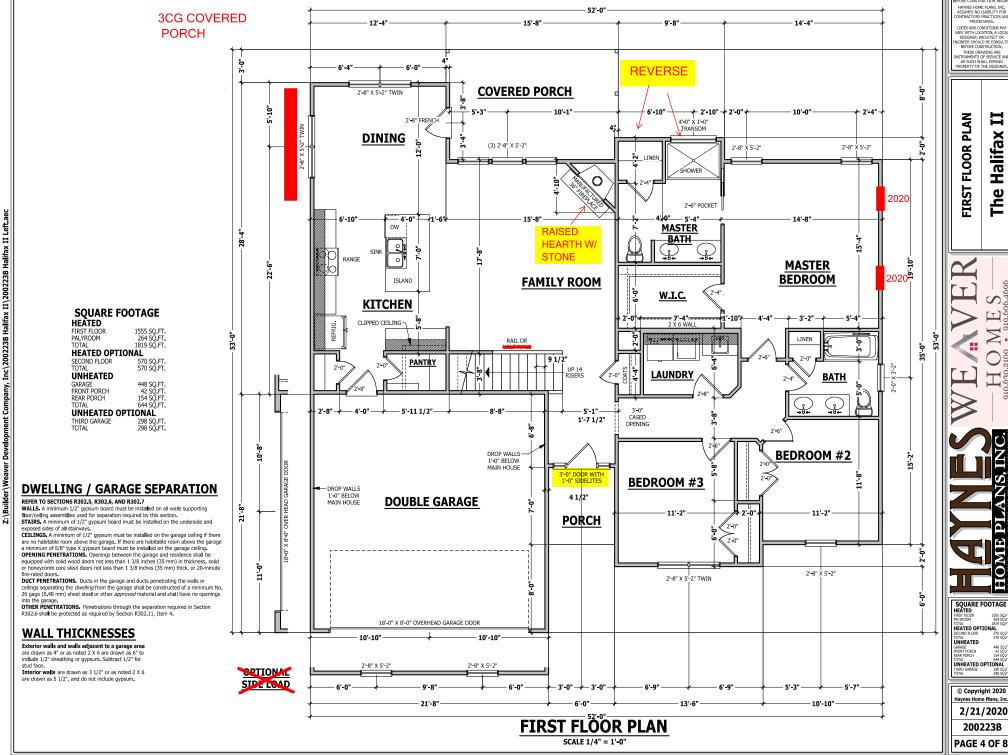
11'-8"

SQUARE FOOTAGE HEATED TOTAL 1819 SQ.FT
HEATED OPTIONAL
SECOND FLOOR 570 SQ.FT
TOTAL 570 SQ.FT UNHEATED RONT PORCH TOTAL UNHEATED OPTIONAL

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FLOOR PLAN The Halifax **FIRST** I

SQUARE FOOTAGE HEATED HEATED OPTIONAL IINHEATED

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PAGE 4 OF 8

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.

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=1.9x106 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 Havnes 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. 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

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

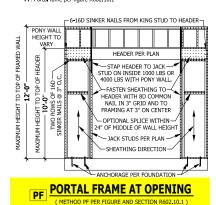
of the brace wall panel closets to the corner.

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" long 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

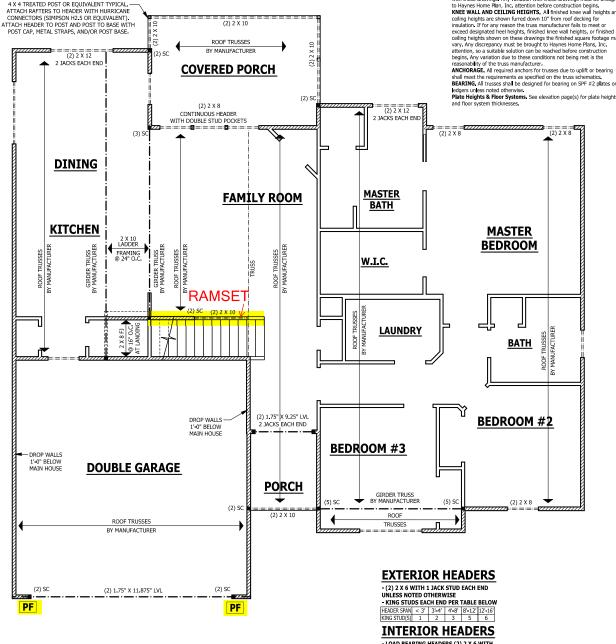
GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws.

PF: Portal fame per figure R602.10.1



SCALE 1/4" = 1'-0"

3CG COVERED PORCH



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

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 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

ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

Plate Heights & Floor Systems. See elevation page(s) for plate heights

- 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

URCHASER MUST VERIFY AL HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AN PROCEDURES.

CODES AND CONDITIONS MAY VARY WITH LOCATION, A LOCAL DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTE BEFORE CONSTRUCTION THESE DRAWING ARE ISTRUMENTS OF SERVICE AN AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER

STRUCTURAL Halifax FLOOR The **FIRST**

SQUARE FOOTAGE HEATED HEATED OPTIONA IINHEATED

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UNHEATED OPTIONAL

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PAGE 5 OF 8

STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North All construction shall conform to the latest requirements of the 2018 worth 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.

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:

EMOLITERED WOOD BEAMS:
Laminated veneer jumber (LVL) = Fb-2600 PSI, Fv-285 PSI, E=1.9x10° PSI
Parallel strand jumber (PSI) = Fb-2900 PSI, Fv-290 PSI, E=2.0x10° PSI
Laminated strand jumber (LSI) = Pb-2250 PSI, Fv-400 PSI, E=1.5x10° PSI
Install all connections per manufacturer instructions
TRUSS AND 1-10SIT MEMBERS. All roof truss and 1-joist Jayouts 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 $6^{\rm -}0^{\rm u}$ span. $6^{\rm u}$ 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. CONCRETE AND SOILS: See foundation notes.

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 celling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or results of the control of the contro 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

ATTIC ACCESS

SECTION PRO7

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 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-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.

 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

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

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.

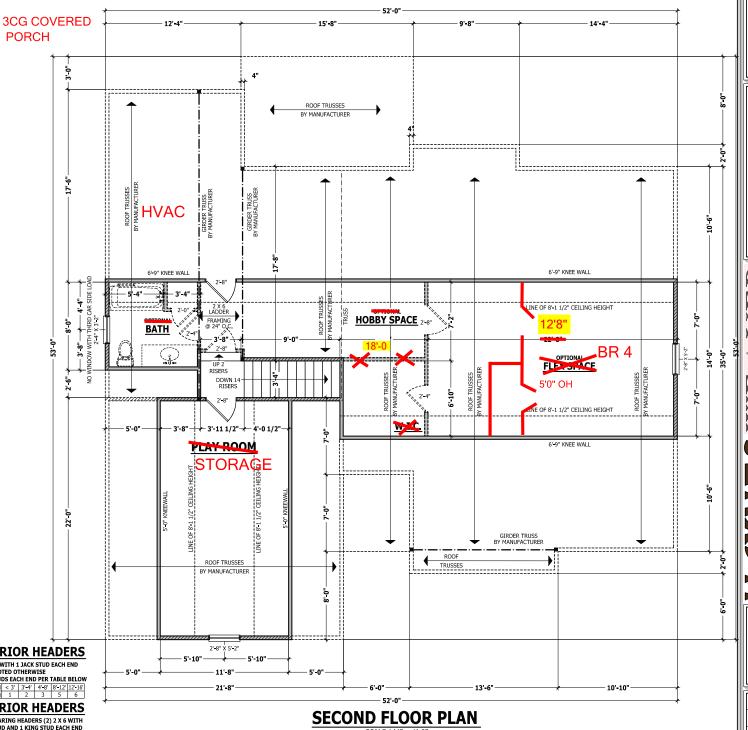
EXTERIOR HEADERS

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

- KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD FACH FND UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE LADDER FRAMED



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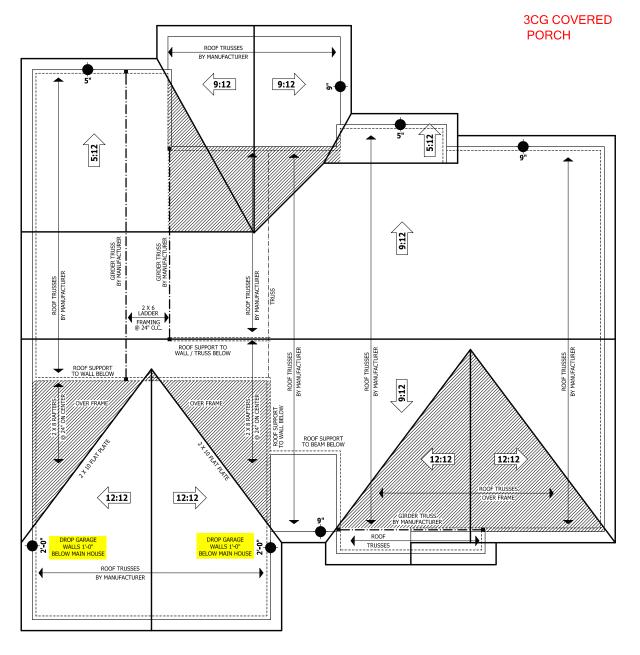
PLAN I The Halifax **SECOND FLOOR**

SQUARE FOOTAGE HEATED HEATED OPTIONAL IINHEATED

UNHEATED OPTIONAL
THIRD GARAGE 298 SQ.F.
TOTAL 298 SQ.F. © Copyright 2020 Haynes Home Plans, Inc.

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PAGE 6 OF 8



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 to nayme some hair, inc. auterious obero do construction of the KINEE WALL MEIGHTS. All finished knee wall heights and ceiling heights are shown furred own 15 month decking for insulation. If for any reason the trush smarfacturer fails to meet or exceed designated heel heights, finished knee wall heights of thished science in the control of the control of the control of the exceed designated heel heights, finished see wall heights of thished science for the control of control 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-





ROOF PLAN

SCALE 1/4" = 1'-0"

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BEFORE CONSTRUCTION.
THESE DEAWLING ARE
INSTRUMENTS OF SERVICE AND
AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

The Halifax **ROOF PLAN**

SQUARE FOOTAGE HEATED HEATED OPTIONAL UNHEATED TOTAL 644 SQ.F **UNHEATED OPTIONAL** THIRD GARAGE 298 SQ.F TOTAL 298 SQ.F

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2 X 4 STUDS AT 16" O.C

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Development

Builder\Weaver

DECK STAIR NOTES

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between

supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer If used, suspended headers shall shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely support stringers at the top.

DECK BRACING

SECTION AM109

see Chapter 45.

AM109.1 Deck bracing. Decks shall be braced to provide lateral stability. The following are acceptable means to rovide lateral stability.

AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the prace per Figure AM109.1

AM109.1.3. For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

and the following:					
POST SIZE	MAX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER	
4 X 4	48 SF	4'-0"	2'-6"	1'-0"	
6 X 6	120 SF	6'-0"	3'-6"	1'-8"	
111100 1 1 2 6 1 1 1 1 1 1					

AM109.1.4. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109 3 AM109.1.5. For embedment of piles in Coastal Regions,

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

SEE FOUNDATION

FOR FOUNDATION

FLOOR JOIST.

AS SPECIFIED)

8" SOLID

FLOOR JOIST

AS SPECIFIED

MINIMUM

X 2 LEDGER

STRIPS OR

HANGERS

PIER SIZE AS

SPECIFIED

2 X 4 STUDS AT 16" O.C. -UNLESS NOTED OTHERWISE

(2) 5/8" THREAD RODS

WITH 2" CUT WASHERS OR

SIMPSON "SET OR SET-XP"

EPOXY. MINIMUM 3'

CONCRETE BELOW ROD.

3 1/2" CONCRETE SLAB

FIBER REINFORCED OR 6 X 6

10/10 WELDED WIRE MESH

EXPANSION JOINT

4" APPROVED BASE

CONTINUOUS CONCRETE

FOOTING AS SPECIFIED

SET BOTTOM OF FOOTING

BELOW THE FROST LINE

DOUBLE DECK

BAND FOR STAIR SUPPORT

9" MINIMUM

Ε

REINFORCED WITH CHAIRS

6 MIL VAPOR BARRIER

В

(3) 2 X 10 GIRDER

UNLESS NOTED OTHERWISE

-2 X 6 TREATED

SILL PLATE

(3) 2 X 10 GIRDER

OTHERWISE >

-2 X 6 TREATED

SILL PLATE

-8" SOLID

MASONRY CAP

DROPPED/FLUSH PIER

SCALE 3/4" = 1'-0"

<48" GARAGE WING WALL

SCALE 3/4" = 1'-0'

-5/4 X 6 OR 2 X 4 TREATED DECKING

MINIMUM 1/4" GAP

BETWEEN DECKING

TREATED FLOOR

FOUNDATION PLAN

2 X 12 STRINGER

GRADE

TREATED 2 X 4 PLATE

FOR STAIR BEARING

CONCRETE FOOTING

AS SPECIFIED SET

BOTTOM OF

FOOTING BELOW

THE FROST LINE

1/2" GYPSUM

SHEATHING

AS SPECIFIED

SIDING AS SPECIFIED

2 V 6 TREATER

— 8" SOLID MASONRY CAP

4" BRICK VENEER

GRADI

TAMPED OR

DROPPED

FLUSH

SHEATHING

2 X 4 SILL PLATE

- 8" SOLID MASONRY CAP

" CONCRETE BLOCK

4" BRICK

GRADE

1/2" GYPSUM

SHEATHING AS SPECIFIED

SIDING AS SPECIFIED

— 8" SOLID MASONRY CAP

VENEER

TAMPED OF

JNDISTURBED

S FARTH

WEEP SCREEDS All weep screeds and stone veneer to be installed ner manufactures instructions and SHEATHING SPECIFIED STONE VEENER per the 2012 North Carolina Residential AS SPECIFIED AS SPECIFIED Building code. /APOR BARRIER WEEP SCREED

- 3 1/2" MINIMUM

FIGURE AM110

TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

TO PAVEMENT

GRADE

PROVIDED 3 1/2" THICK

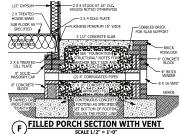
OF STEPS FOR BEARING

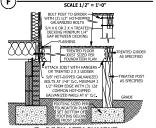
R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic veep screed, with a minimum vertical MINIMUM 4" TO attachment flange of 31/2 inches (89 mm) GROUND OR 2" shall be provided at or below the foundation plate line on exterior stud walls

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 shal Ian the attachment flance. The exterior lath shall cover and terminate on the attachment flange of the weep screed.

2 X 4 STUDS AT 16" O.C. — UNLESS NOTED OTHERWISE -1/2" GYPSUM SUB FLOOR AS-SPECIFIED X X X X X X AS SPECIFIED 4" CONCRETE BLOCK 2 X 6 TREATED SILI PLATE -4" BRICK VENEER SEE "FOUNDATION - EXPANSION JOINT STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND -6 MIL VAPOR BARRIER SPACING 3 1/2" SLAB CONTINUOUS CONCRETI TAMPED OR FOOTING AS SPECIFIED SET BOTTOM OF FOOTIN UNDISTURBED EARTH BELOW THE FROST LINE

CRAWL SPACE AT GARGE C SCALE 3/4" = 1'-0"





(G) DECK ATTACHMENT

SMOKE ALARMS

SECTION P314

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 NEDA 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

 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.

SEE ROOF EDGED OR PORCH FLOOR 12 PLAN OR ELEVATION SHINGLES AS SPECIFIED FOR PITCH SHEATHING AS SPECIFIED - 15# BUILDING FELT ROOF TRUSSES BY MANUFACTURE PORCH HEADER PER PLAN INSTALLED OVER CENTER OF COLUMN BASE -VINYL OR HARDIE SOFFIT INSTALLED PER MANUFACTURERS BLOCKING INSTALLED INSTRUCTIONS ON BOTH SIDES & UNDER HEADER AS DESIRED TARERED COLLIMN OVER MASONRY BASE 1 X MATERIAL · ATTACHED TO HEADER CENTER LINE OF HEADER WITH POST CAP AND COLUMN

PORCH HEADER WITH TAPERED COLUMN

CARBON MONOXIDE ALARMS

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 ted, carbon monoxide alarms shall be provided in accordance with Section

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.

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 depth 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

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:

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

lowest uead.

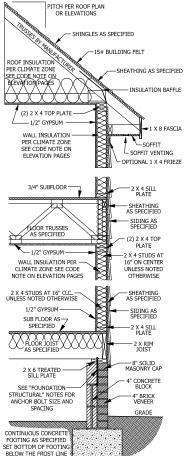
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

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

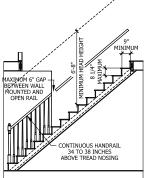
Exceptions:

 Handrails shall be permitted to be interrupted by a newel post. 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.



12



TYPICAL WALL DETAIL

SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL

SQUARE FOOTAGE HEATED HEATED OPTIONAL INHEATED

URCHASER MUST VERIFY AL

HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR ONTRACTORS PRACTICES AN

PROCEDURES.

CODES AND CONDITIONS MA

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DESIGNER, ARCHITECT OR SINEER SHOULD BE CONSUL' BEFORE CONSTRUCTION

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DETAILS

TYPICAL

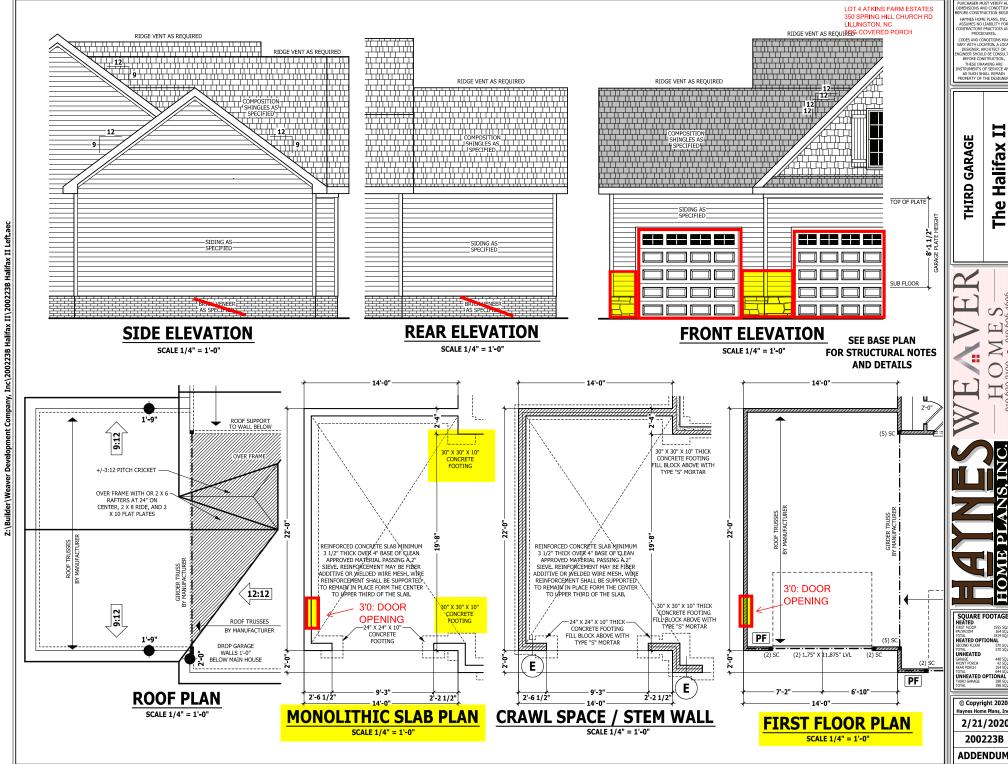
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SQUARE FOOTAGE HEATED

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ADDENDUM