# **RESIDENTIAL BUILDING CODE** MEAN ROOF HEIGHT: 18'-8" CLIMATE ZONE ZONE 3A ZONE 4A ZONE 5A Vall R-Value OOR R-VALUI <u>\* Basement Wall R-Vall</u>

\* "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 & 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	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
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 WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"								
COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS							_OADS	
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	18.2	-19.6	18.7	-20.2
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-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**

**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.

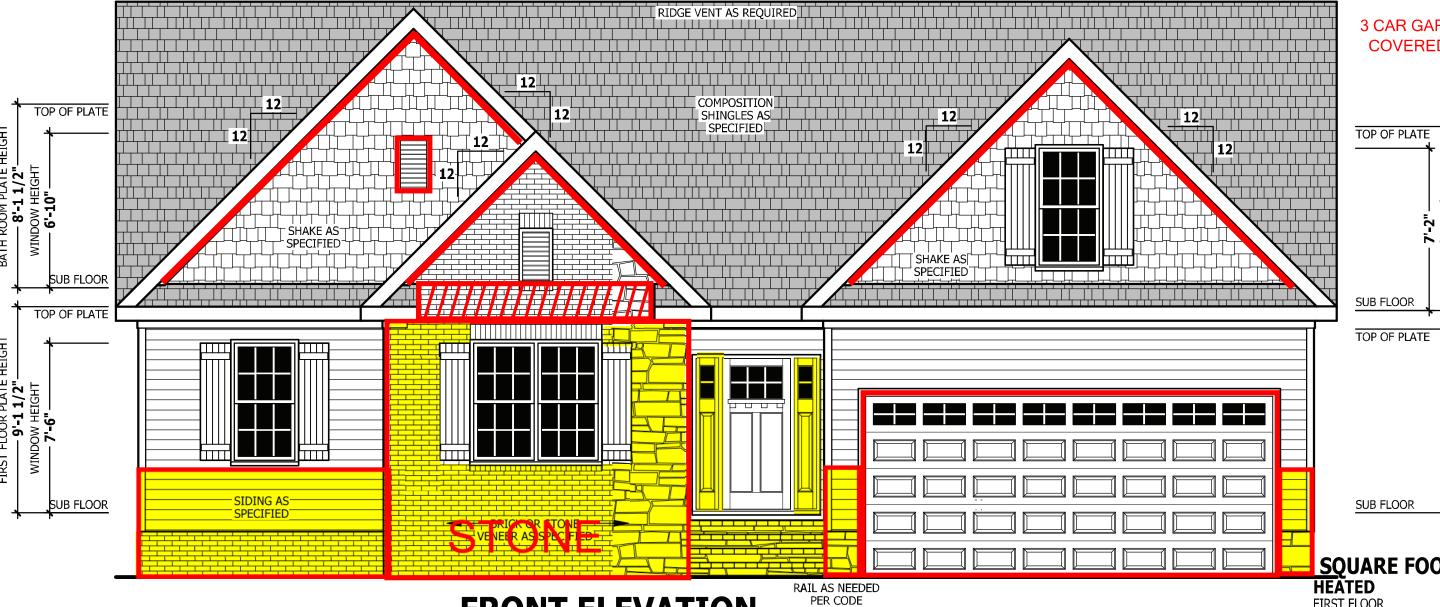
**R806.2 Minimum area.** The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators 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. Exceptions:

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. 2. 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.



# **AIR LEAKAGE**

**ELECTRICAL: PIONEER** 

HVAC: TBD

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.

# **FRONT ELEVATION**

SCALE 1/4" = 1'-0"

\*\*\* STONE ON FRONT FACING ONLY.

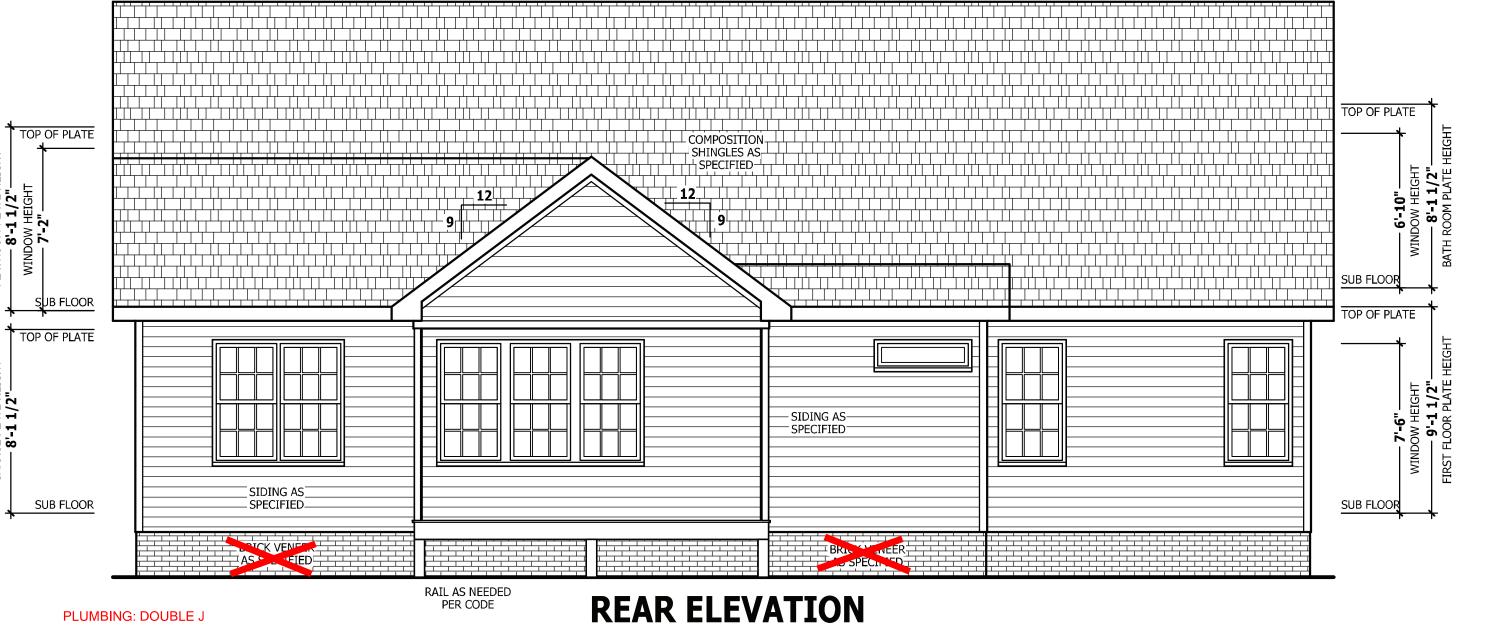
**SQUARE FOOTAGE** 

FIRST FLOOR PALYROOM 1555 SQ.FT. 264 SQ.FT. 1819 SQ.FT

**HEATED OPTIONAL** 570 SQ.FT. 570 SQ.FT. SECOND FLOOR

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

UNHEATED OPTIONAL 298 SQ.FT 298 SQ.FT THIRD GARAGE TOTAL



RIDGE VENT AS REQUIRED

3 CAR GARAGE **COVERED PORCH** 

**LOT 1 NORTH POINTE** 

**ERWIN, NC 28339** 

TBD JOSIE WILLIAMS RE

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Halifax

The

**ELEVATIONS** 

REAR

**∞** 

**FRONT** 

**2018 NORTH CAROLINA STATE** 

SQUARE FOOTAGE HEATED FIRST FLOOR 1555 SO.FT PALYROOM 264 SQ.FT

TOTAL 1819
HEATED OPTIONAL
SECOND FLOOR 570 TOTAL UNHEATED GARAGE FRONT PORCH REAR PORCH

UNHEATED OPTIONAL

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SCALE 1/4" = 1'-0"

**GUARD RAIL NOTES** 

screening shall not be considered as a guard.

the leading edges of the treads.

inches (102 mm)in diameter.

mm) in diameter.

within 36 inches (914 mm) horizontally to the edge of the open side. Insect

**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.

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

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

**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

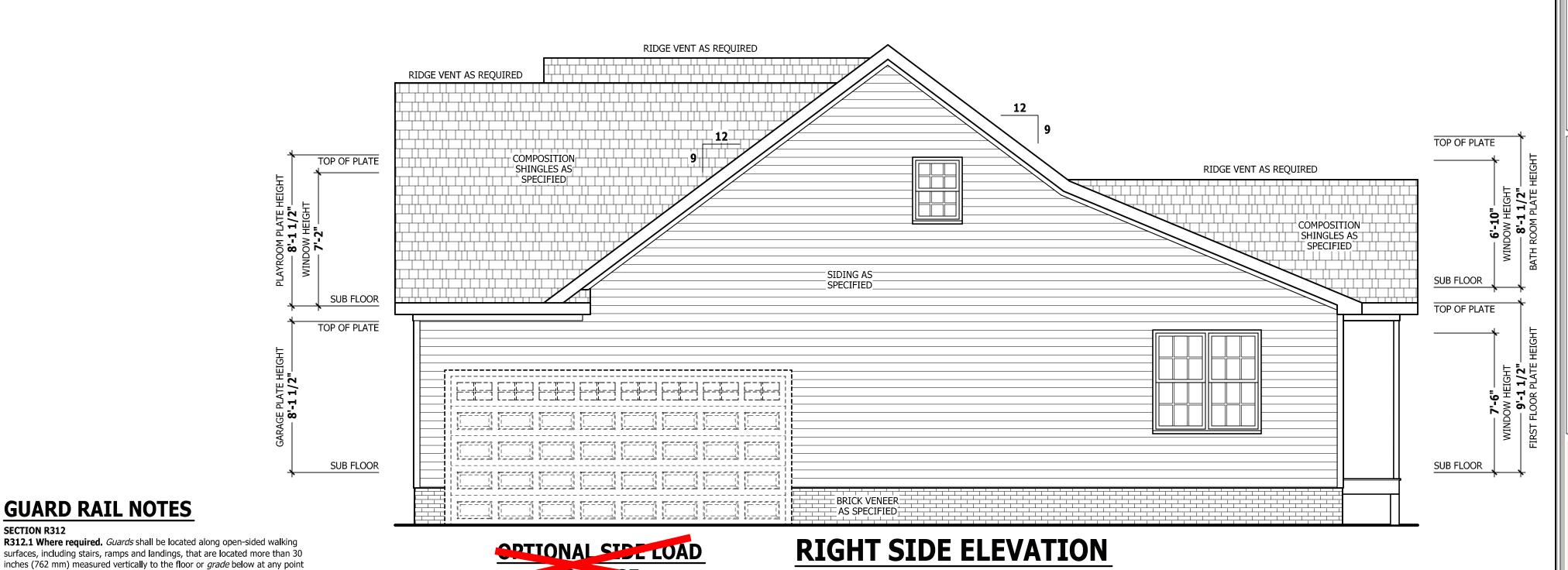
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153

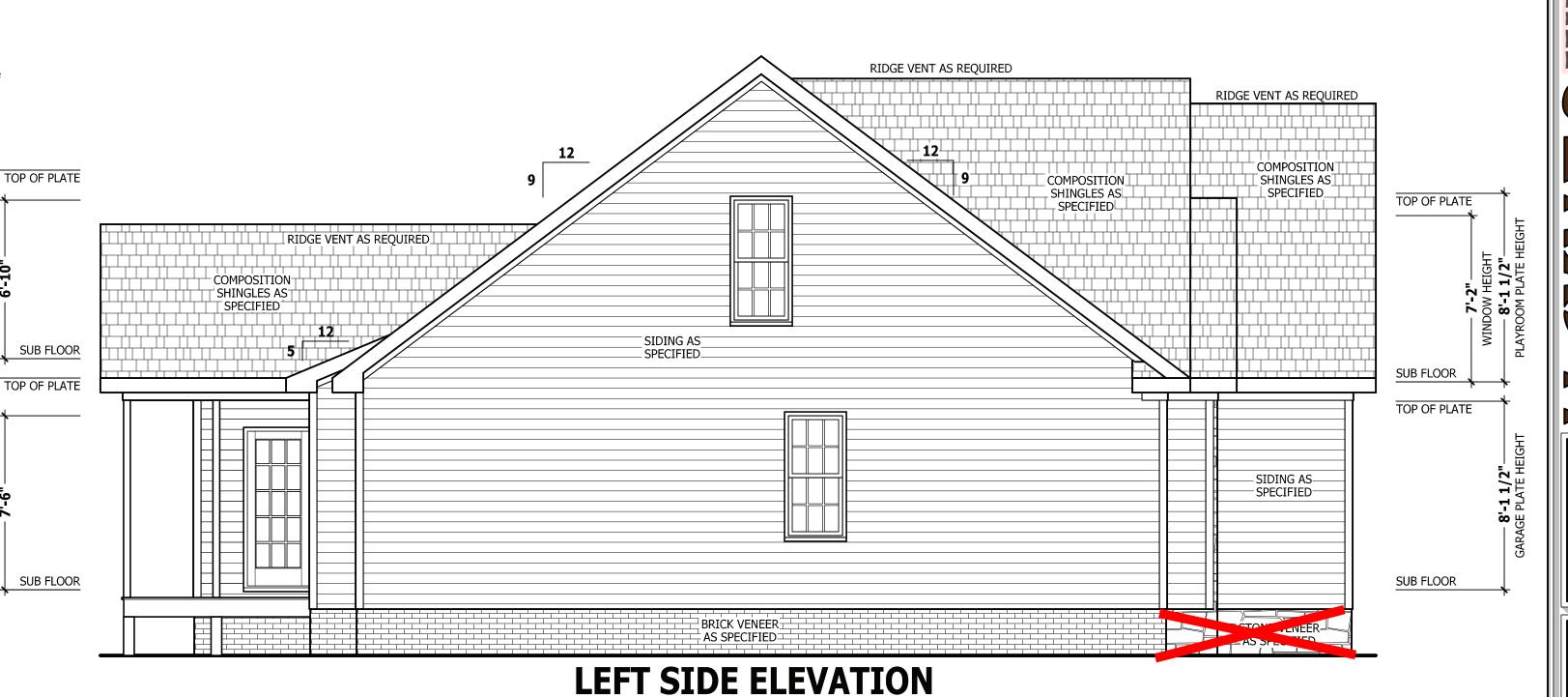
BATH ROOM

WIND

2. 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"

SCALE 1/4" = 1'-0"

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**ELEVATIONS** Halifax

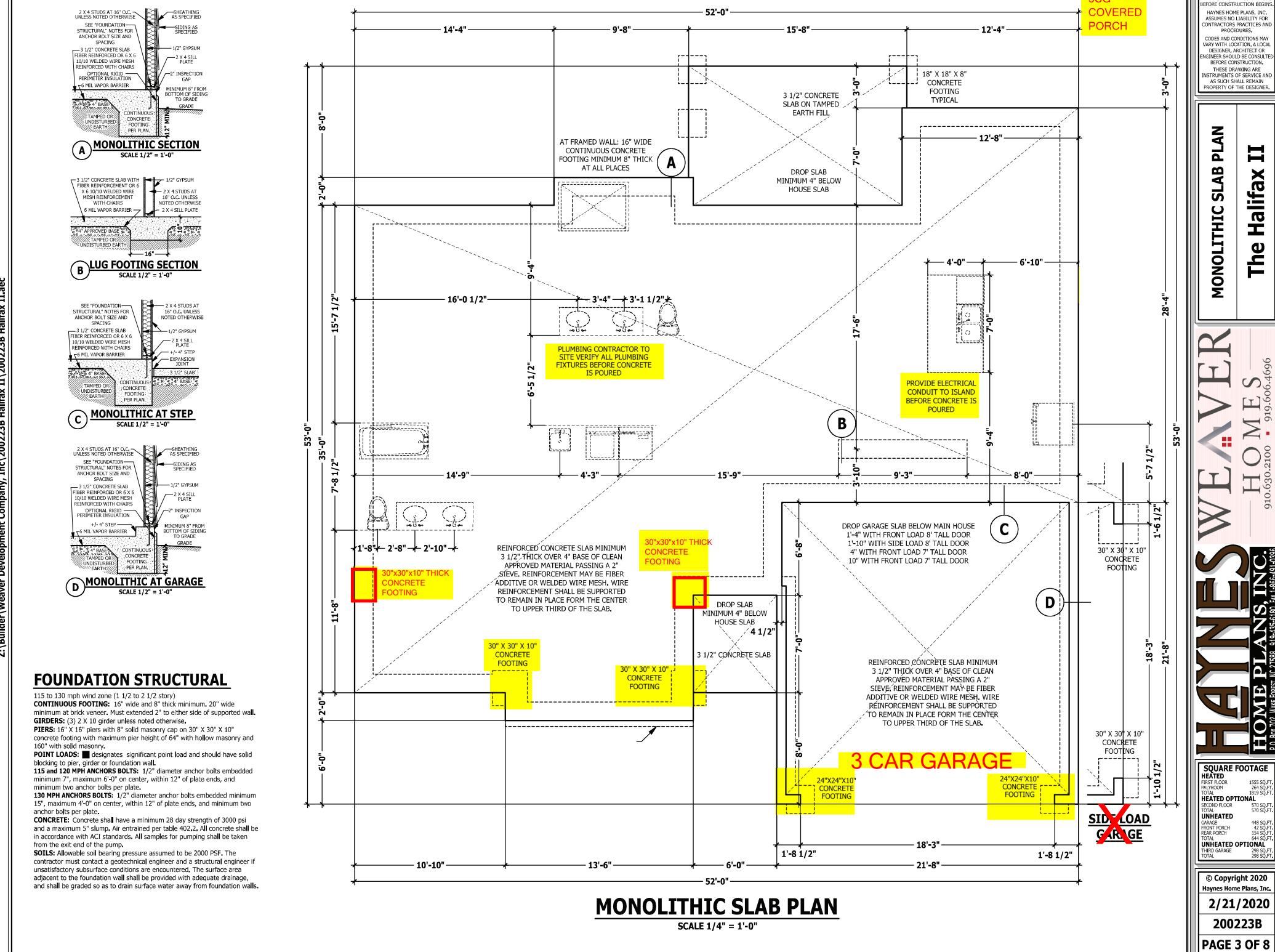
The

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FT.
PALYROOM 264 SQ.FT.
TOTAL 1818 SQ. FT. 1555 SQ F 264 SQ F 1819 SQ F PALTKOUM 264
TOTAL 1819 S
HEATED OPTIONAL
SECOND FLOOR 570 S
TOTAL 570 S
UNHEATED
GARAGE 448 S
FRONT PORCH 42 S
REAR PORCH 154
TOTAL 644

GARAGE 448 SO,FT FRONT PORCH 42 SO,FT REAR PORCH 154 SO,FT TOTAL 644 SO,FT UNHEATED OPTIONAL THIRD GAPAGE 298 SO,FT

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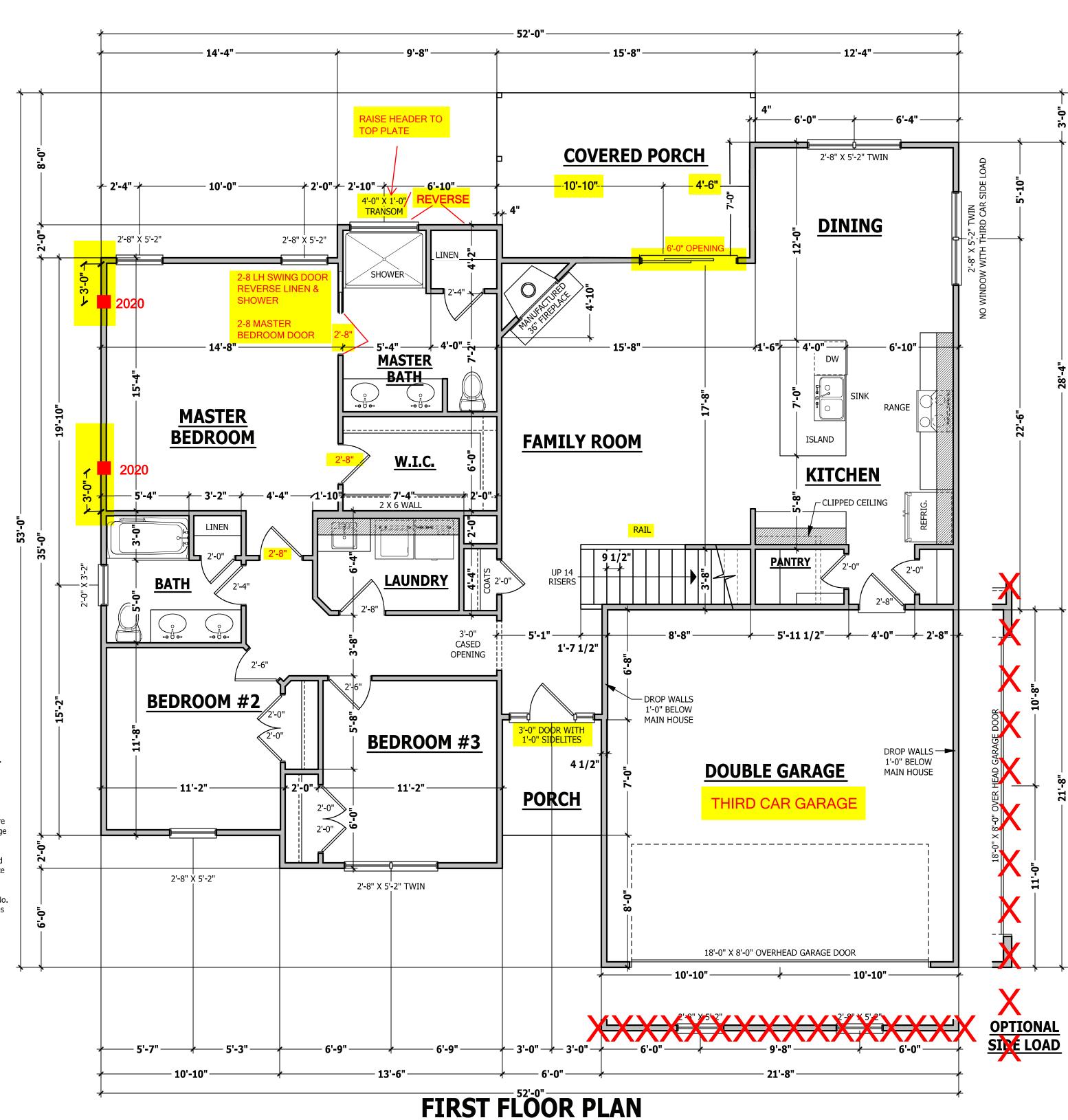
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**SCALE 1/4" = 1'-0"** 

# **SQUARE FOOTAGE HEATED**FIRST FLOOR 1555 SQ.FT

FIRST FLOOR 1555 SQ.FT.
PALYROOM 264 SQ.FT.
TOTAL 1819 SQ.FT. **HEATED OPTIONAL** 

570 SQ.FT. 570 SQ.FT.

SECOND FLOOR TOTAL

UNHEATED

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

#### UNHEATED OPTIONAL

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

# **DWELLING / GARAGE SEPARATION**

REFER TO SECTIONS R302.5, R302.6, AND R302.7

exposed sides of all stairways.

fire-rated doors.

**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

**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

**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.

# 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.

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PLAN

FLOOR

**FIRST** 

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FT.
PALYROOM 264 SQ.FT.
TOTAL 1818 SQ. FT.

TOTAL 1819
HEATED OPTIONAL

TOTAL 644 SQ.F

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TOTAL UNHEATED

GARAGE FRONT PORCH REAR PORCH Halifax

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# **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 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. **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 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.

## **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 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

#### 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

are drawn as 5 1/2", and do not include gypsum.

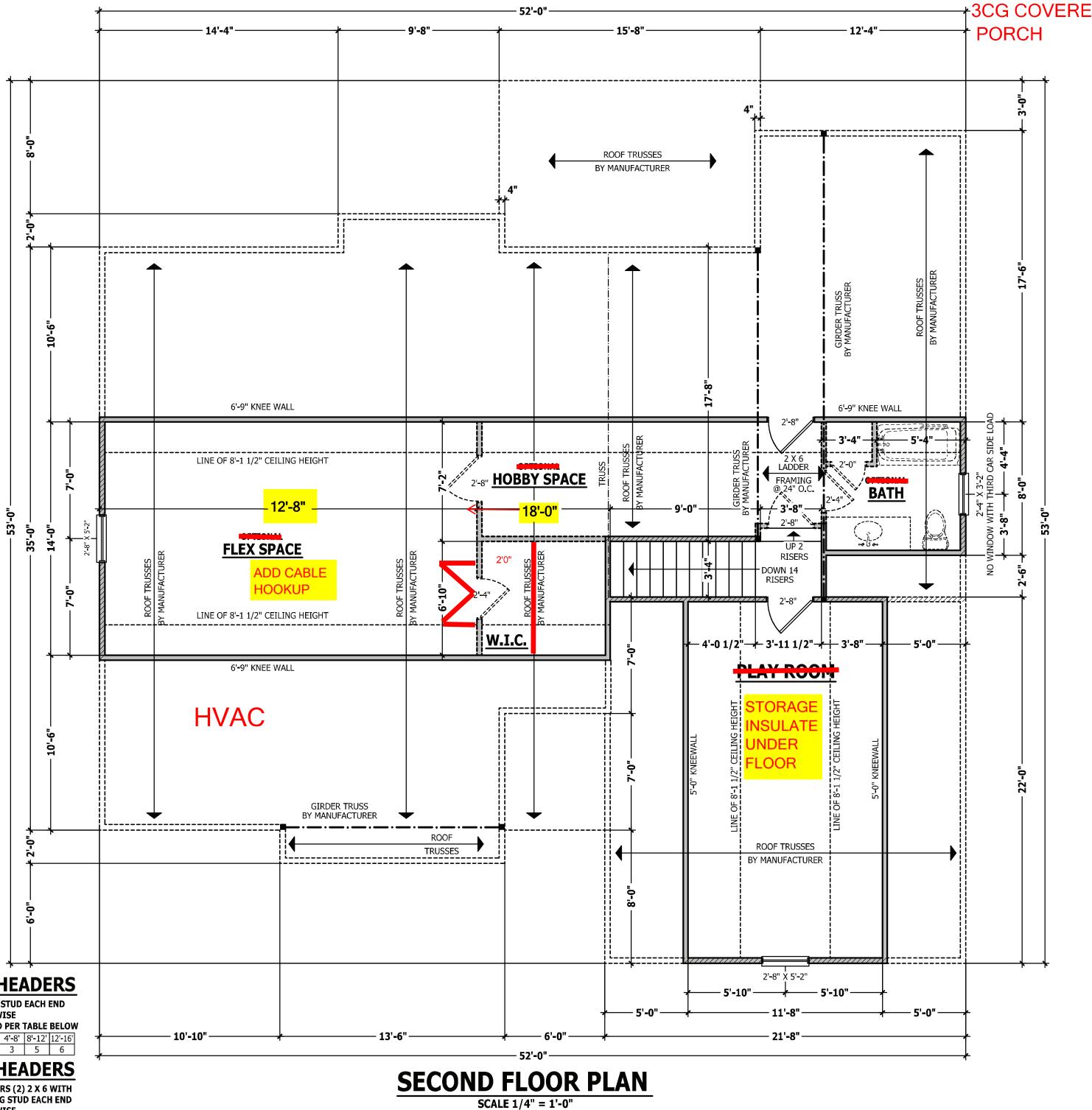
# **EXTERIOR HEADERS**

Interior walls are drawn as 3 1/2" or as noted 2 X 6 - (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 EACH END **UNLESS NOTED OTHERWISE** - NON LOAD BEARING HEADERS TO BE LADDER FRAMED



52'-0"

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PLAN FLOOR ECOND

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Halifax Φ

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FT
PALYROOM 264 SQ.FT TOTAL 1819 **HEATED OPTIONAL**SECOND FLOOR 570

TOTAL 570 **UNHEATED** GARAGE FRONT PORCH REAR PORCH

UNHEATED OPTIONAL

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ROOF PLAN

The Halifax

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FT.
PALYROOM 264 SQ.FT.
TOTAL 1819 SQ.FT.
HEATED OPTIONAL
SECOND FLOOR 570 SQ.FT.
TOTAL 570 SQ.FT.
UNHEATED
GARACE 448 SQ.FT.

GARAGE 448 SQ.FT.
GARAGE 448 SQ.FT.
FRONT PORCH 42 SQ.FT.
REAR PORCH 154 SQ.FT.
TOTAL 644 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 298 SQ.FT.
TOTAL 298 SQ.FT.

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



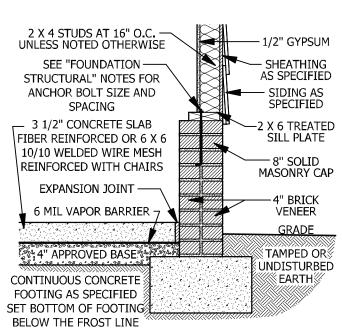
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HEEL HEIGHT ABOVE SECOND FLOOR PLATE

SCA

S) for plate heights

GHT ABOVE





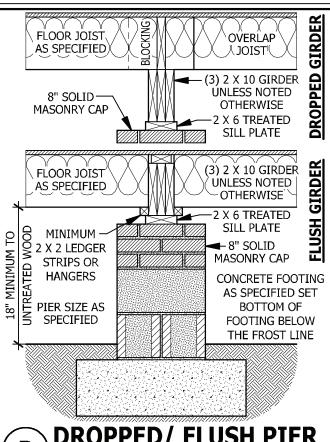
### **GARAGE STEM WALL** SCALE 3/4" = 1'-0"

# **DECK STAIR NOTES**

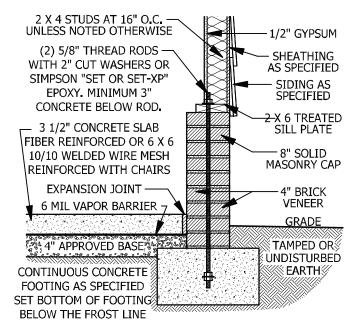
#### **SECTION AM110**

girder/double band with one 5/8 inch hot dipped galvanized bolt with nut and washer at both ends of the

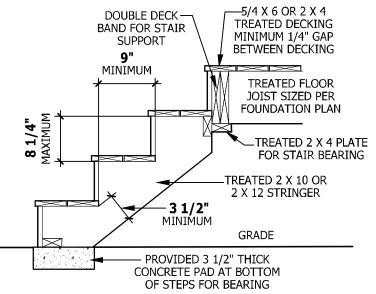
be provided in two perpendicular directions for freestanding decks or parallel to the structure at the be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3.



# DROPPED/ FLUSH PIER SCALE 3/4'' = 1'-0''



## <48" GARAGE WING WALL SCALE 3/4" = 1'-0"



# FIGURE AM110 TYPICAL DECK STAIR DETAIL

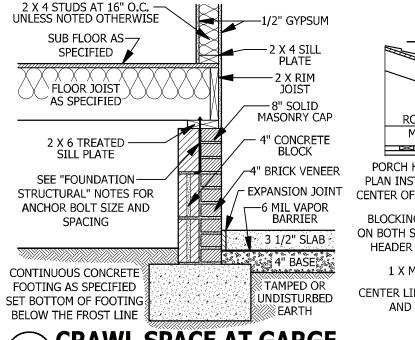
SCALE 3/4" = 1'-0"

### **WEEP SCREEDS**

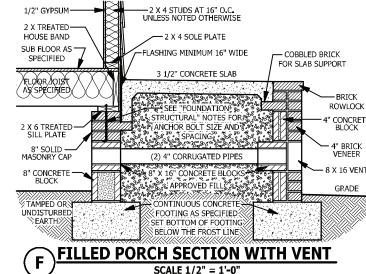
All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential Building code.

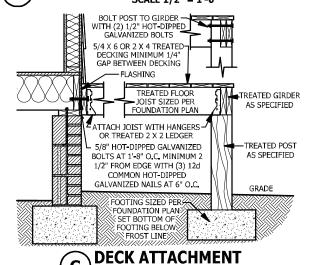
**R703.6.2.1** - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM 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 lap the attachment flange. The exterior lath shall cover and terminate on the

attachment flange of the weep screed.



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





# **SMOKE ALARMS**

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 more than 1 1/4 inches (32 mm) shall be provided on stairways with solid 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

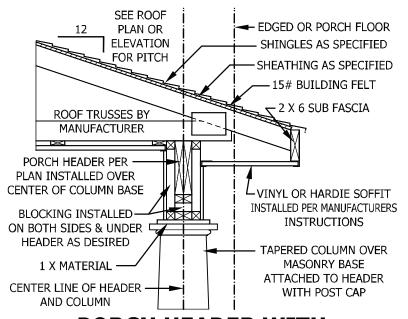
locations: 1. In each sleeping room.

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 between the wall and the handrails. an individual *dwelling* unit the alarm devices shall be interconnected **Exceptions**: 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 building. The weather-resistant barrier shall 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.



# **PORCH HEADER WITH TAPERED COLUMN**

SCALE 3/4" = 1'-0"

# **CARBON MONOXIDE ALARMS**

#### 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

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**

R311.7.2 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

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:

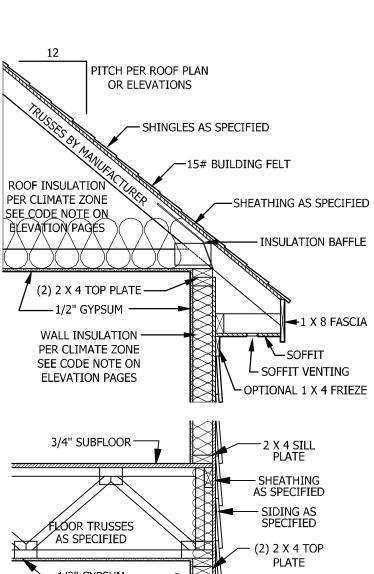
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.

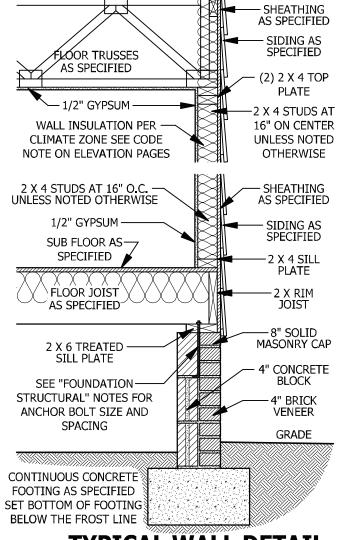
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

**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)

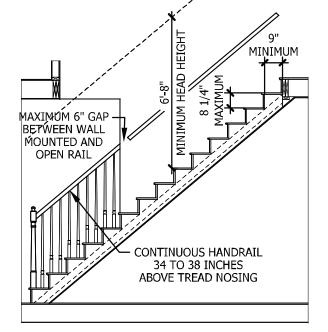
1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

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.





TYPICAL WALL DETAIL SCALE 3/4" = 1'-0"



TYPICAL STAIR DETAIL

SCALE 1/4" = 1'-0"

alifax PICA I

PURCHASER MUST VERIFY ALI IMENSIONS AND CONDITION

BEFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC.

CONTRACTORS PRACTICES AND

PROCEDURES.

CODES AND CONDITIONS MA

VARY WITH LOCATION, A LOCAL

DESIGNER, ARCHITECT OR

NGINEER SHOULD BE CONSULTE

BEFORE CONSTRUCTION.

THESE DRAWING ARE

AS SUCH SHALL REMAIN

PROPERTY OF THE DESIGNER

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1555 SQ.FT
PALYROOM 264 SQ.FT

HEATED OPTIONAL UNHEATED GARAGE FRONT PORCH REAR PORCH UNHEATED OPTIONAL

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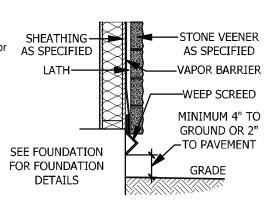
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AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches 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** AM109.1 Deck bracing. Decks shall be braced to provide lateral stability. The following are acceptable means to **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

brace per Figure AM109.1 AM109.1.3. For freestanding decks without knee braces or AS SPECIFIED diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

Ì	POST SIZE	1 1441/	MAX. POST HEIGHT	EMBEDMENT	CONCRETE		
	4 X 4	AREA 48 SF	4'-0"	2'-6"	1'-0"		
	6 X 6	120 SF	6'-0"	3'-6"	1'-8"		
1	<b>AM109.1.4.</b> 2 x 6 diagonal vertical cross bracing may						

exterior column line for attached decks. The 2 x 6's shall AM109.1.5. For embedment of piles in Coastal Regions, see Chapter 45.



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

