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

MEAN ROOF HEIGHT: 25'-4	HEIGHT TO RIDGE:31'-3"			
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

\*\* 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"

	DEGIGITED 1 OIL 1111	0, 220	01 120 111	11/ 5 5250	3110 0001	130 17101		E/(I 000)	(
	COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS								
1	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 LO					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	18.2	-19.6	18.7	-20.
	ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.
	ZONE 3	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23
	ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21
	70NF 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 = 1,373 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 9.15 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 = 4.58 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*.

01/18/2024

PER CODE

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
- 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 *quard* height which allow passage of a sphere 4 inches (102 mm)in diameter.

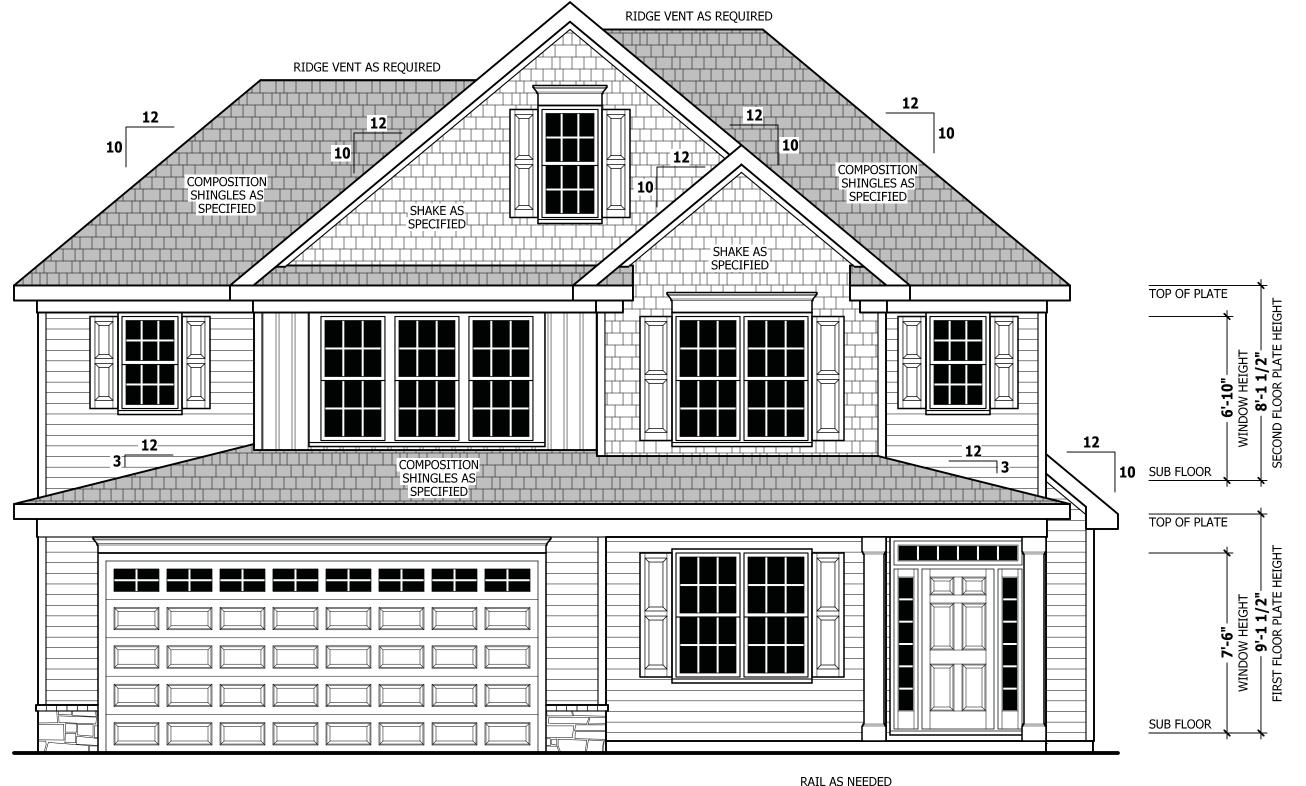
- 1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
- 2. *Guards* on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.

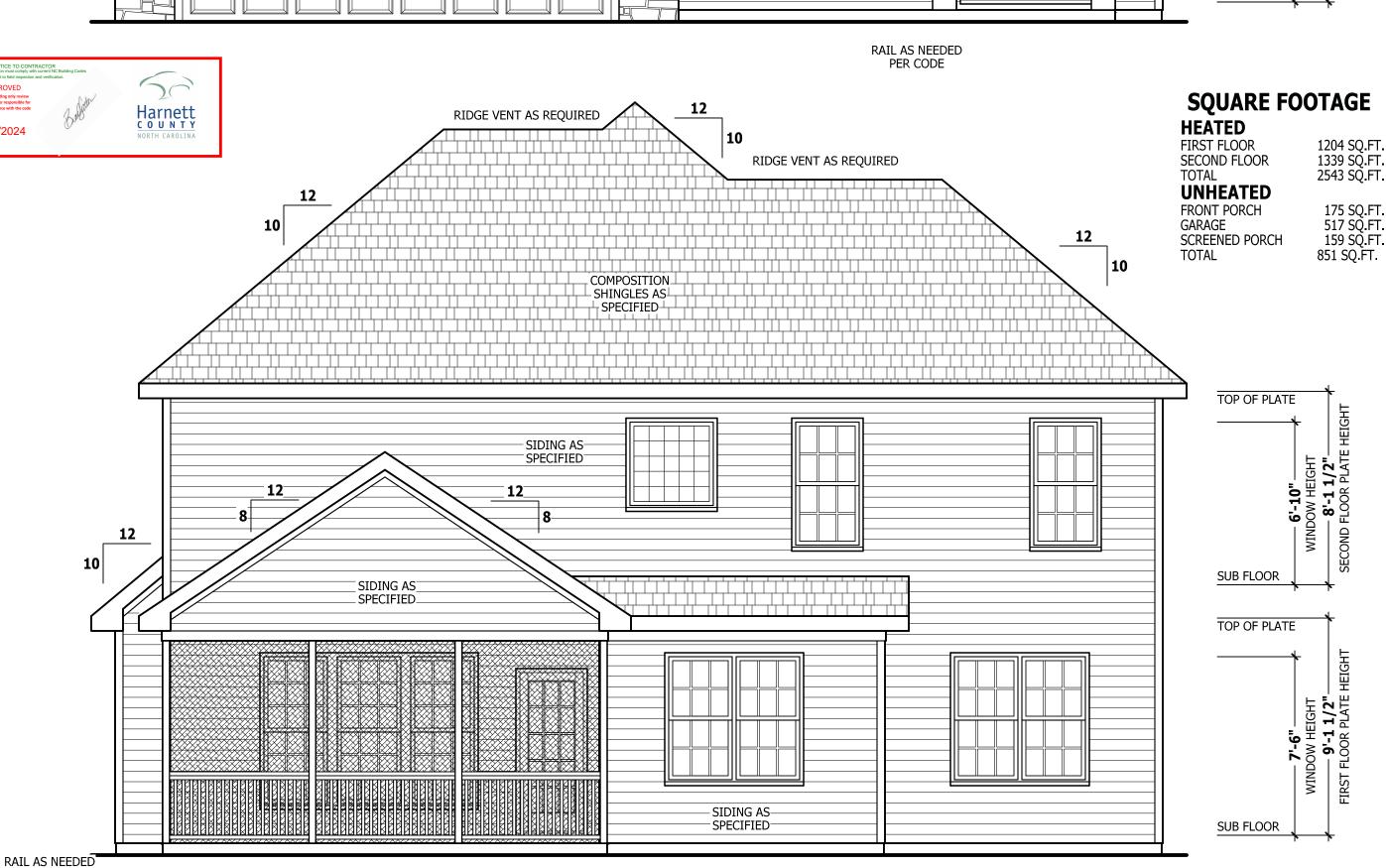
### **AIR LEAKAGE**

### 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.





**FRONT** 

**MEADOW** 

PURCHASER MUST VERIFY ALL IMENSIONS AND CONDITIONS

SEFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

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**ELEVATIONS** 

REAR

8

**SQUARE FOOTAGE** HEATED TOTAL **UNHEATED** FRONT PORCH GARAGE SCREENED PORCH TOTAL

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RIGHT ELEVATIONS

**MEADOW ∞** LEFT



 SQUARE FOOTAGE

 HEATED
 1204 SQ.FT.

 FIRST FLOOR
 1339 SQ.FT.

 TOTAL
 2543 SQ.FT.

 UNHEATED
 175 SQ.FT.

 GARAGE
 517 SQ.FT.

 SCREENED PORCH
 159 SQ.FT.

 TOTAL
 851 SQ.FT.

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**PLAN MEADOW FOUNDATION** 

**SQUARE FOOTAGE** HEATED FIRST FLOOR SECOND FLOOR TOTAL UNHEATED GARAGE SCREENED PORCH

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**PLAN** FLOOR

**MEADOWS FIRST** 

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1204 SQ.FT
SECOND FLOOR 1339 SQ.FT

TOTAL UNHEATED GARAGE SCREENED PORCH TOTAL

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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 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.

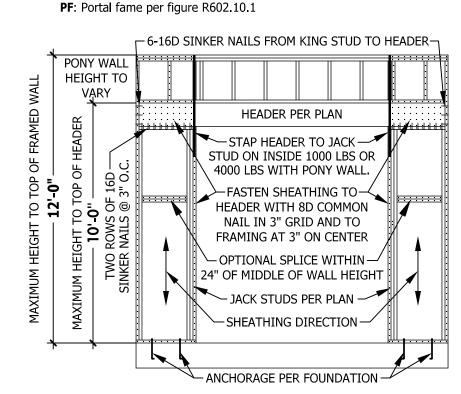
**GYPSUM:** All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

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" 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.



# PORTAL FRAME AT OPENING

METHOD PF PER FIGURE AND SECTION R602.10.1) SCALE 1/4" = 1'-0"

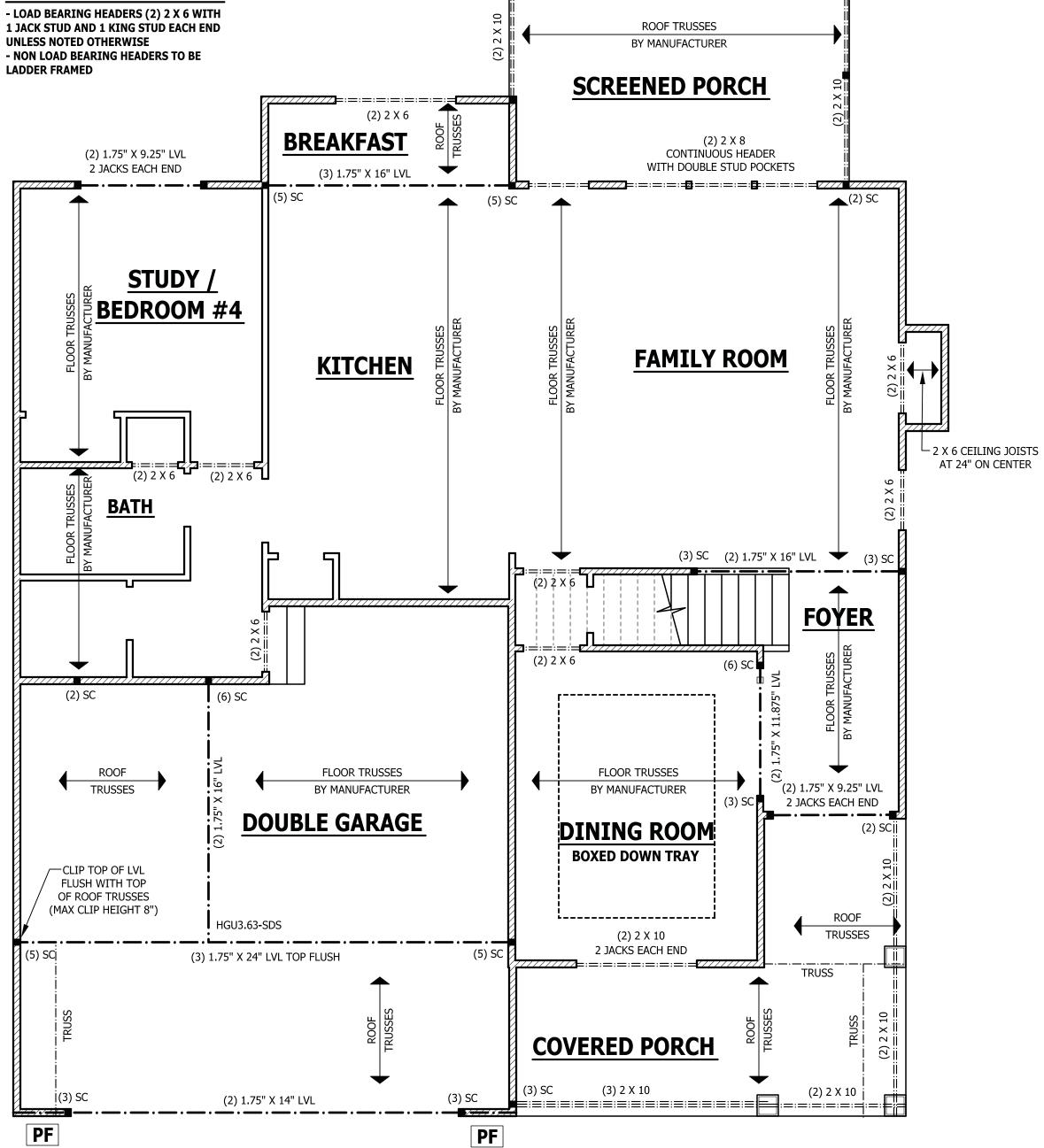
### **EXTERIOR HEADERS**

- (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

## **INTERIOR HEADERS**

- NON LOAD BEARING HEADERS TO BE



(2) 2 X 10

# FIRST FLOOR STRUCTURAL

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

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STRUCTURAL **MEADOW** FLOOR **FIRST** 



**SQUARE FOOTAGE** HEATED UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL

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**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 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.

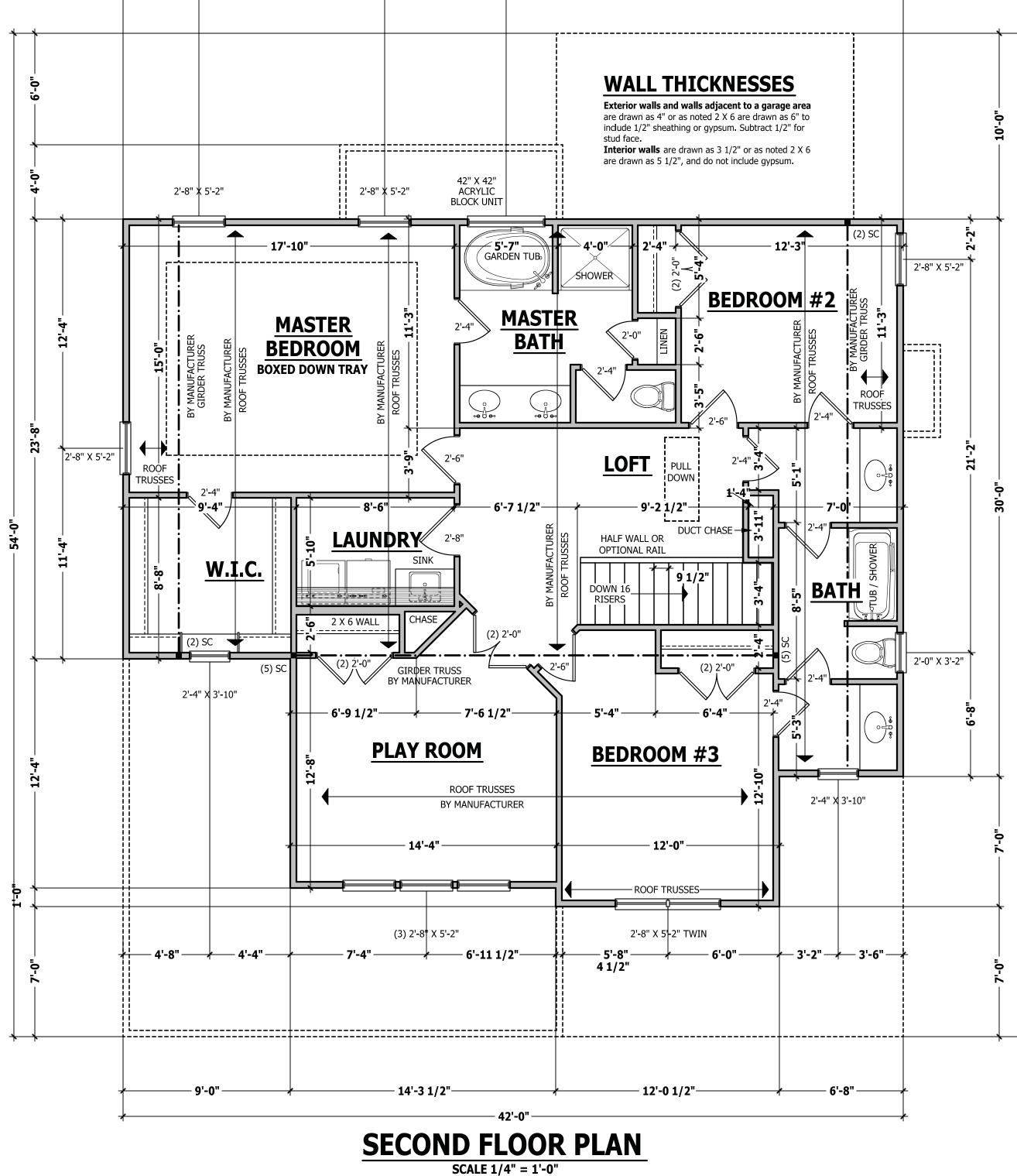
### **EXTERIOR HEADERS**

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



6'-6 1/2"-

21'-4 1/2"-

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**PLAN** MEADOW FLOOR SECOND



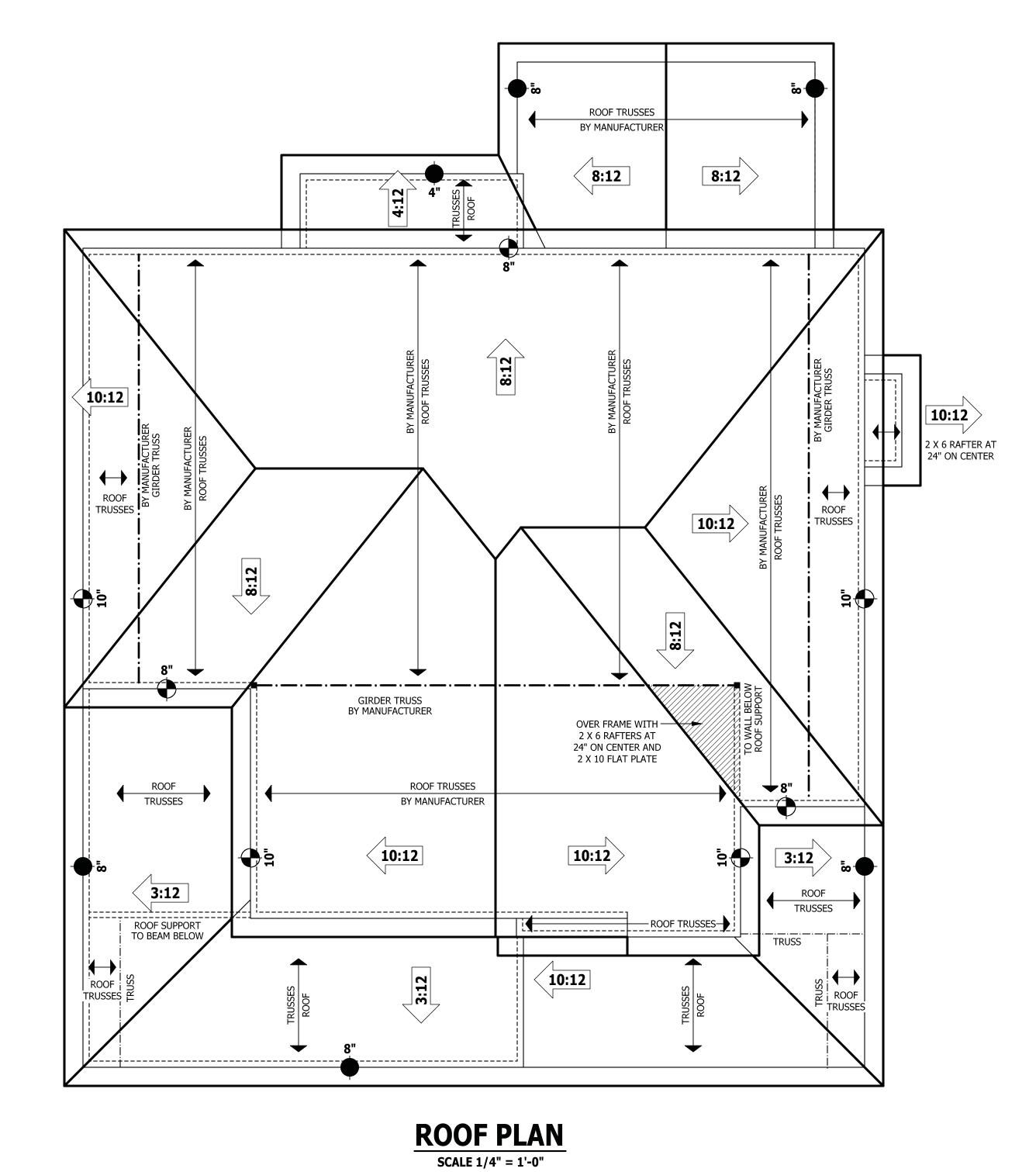
**SQUARE FOOTAGE** HEATED UNHEATED RONT PORCH GARAGE SCREENED PORCH

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# **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 FIRST FLOOR PLATE

HEEL HEIGHT ABOVE SECOND FLOOR PLATE

327 Di Fayett

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**MEADOWS** 

**ROOF PLAN** 

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1204 SQ.FT.
SECOND FLOOR 1339 SQ.FT.
TOTAL 2543 SQ.FT.
UNHEATED
FRONT PORCH 175 SQ.FT.
GARAGE 517 SQ.FT.

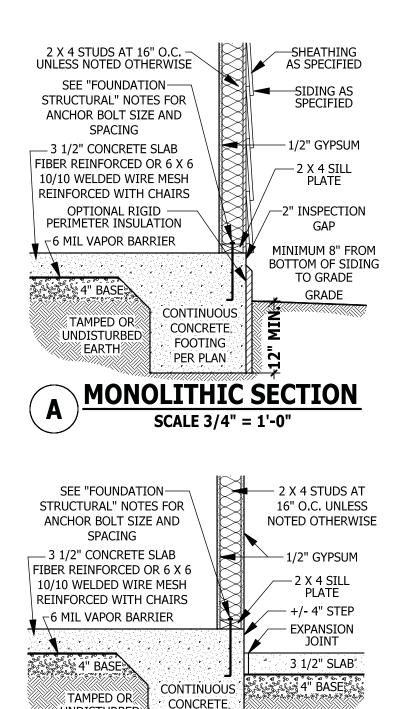
HOTAL

UNHEATED
FRONT PORCH
GARAGE
SCREENED PORCH
TOTAL

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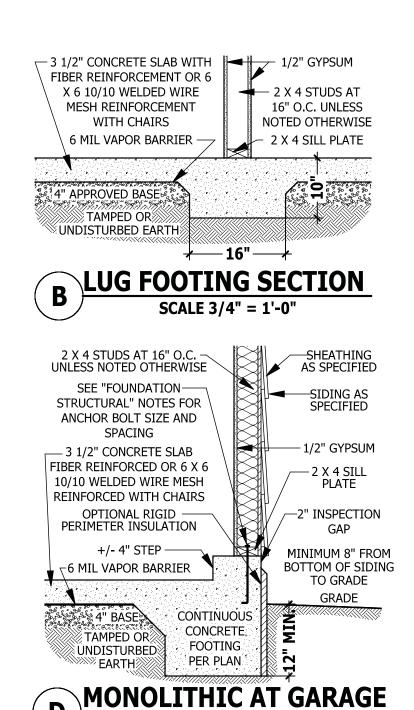
PAGE 7 OF 8

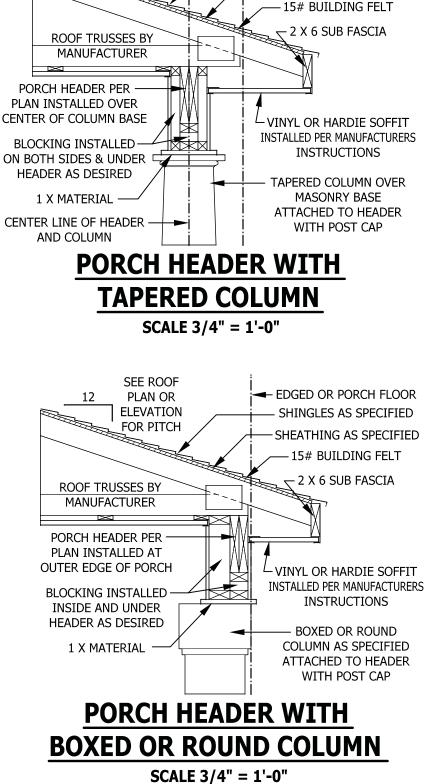


FOOTING

PER PLAN

**MONOLITHIC AT STEP** 





SEE ROOF

PLAN OR

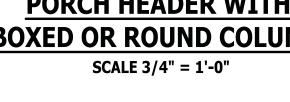
**ELEVATION** 

FOR PITCH

EDGED OR PORCH FLOOR

SHINGLES AS SPECIFIED

SHEATHING AS SPECIFIED



**UNDISTURBED** 

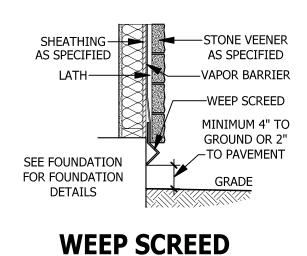
**EARTH** 

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.

**CARBON MONOXIDE ALARMS** 

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



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 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**

**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

**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.

# **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 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

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.

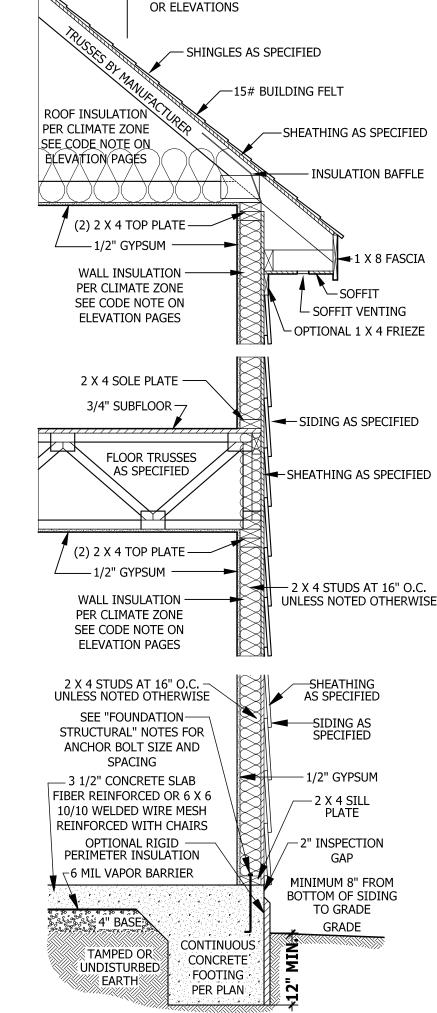
**R311.7.7.2 Continuity.** Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. 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

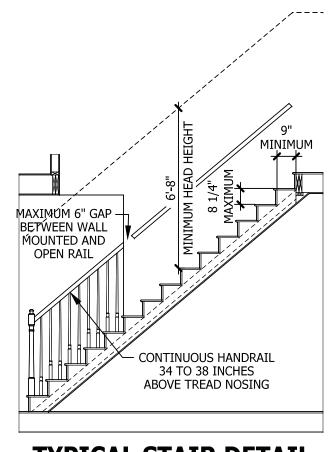
allowed over the lowest tread.

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.



PITCH PER ROOF PLAN

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





0

PURCHASER MUST VERIFY ALL SEFORE CONSTRUCTION BEGINS

HAYNES HOME PLANS, INC.

ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

CODES AND CONDITIONS MAY

DESIGNER, ARCHITECT OR

BEFORE CONSTRUCTION.

THESE DRAWING ARE

NSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

DETAIL

**TYPICAL** 

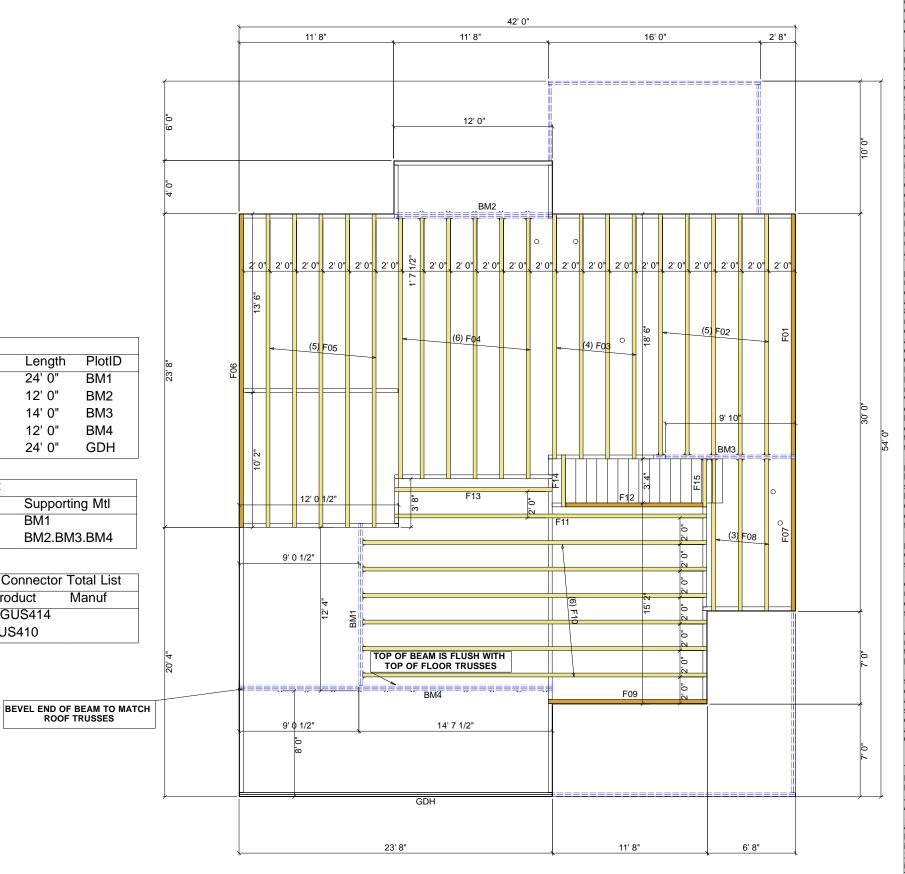
MEADOW

IGINEER SHOULD BE CONSULTED

**SQUARE FOOTAGE** HEATED FIRST FLOOR SECOND FLOOR TOTAL
UNHEATED RONT PORCH GARAGE SCREENED PORCH

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PAGE 8 OF 8



Products

1-3/4" x 24" LVL

1-3/4" x 16" LVL

1-3/4" x 16" LVL

1-3/4" x 16" LVL

1-3/4" x 14" LVL

Truss Connector List

Qty

21

Product

HGUS414

PlotID

BM1

BM2

BM3

BM4

GDH

Length

24' 0"

12' 0"

14' 0"

12' 0"

24' 0"

BM1

Truss Connector Total List

Product

LUS410

HGUS414

Supporting Mtl

BM2.BM3.BM4

Manuf

Product

Plies

3

3

2

2

2

F02,F04,F08,F10,F15 LUS410

Net Qtv

3

2

2

2

Supported Mtl

ВМ3

#### FLOOR TRUSS NOTES:

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAG TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss. **Espanol** (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS par asistencia ANTES de realizar cualquier modification.) 1. This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has bee prepared by a Truss Technician and is not an engineered drawing.

2. The responsibilities of the Owner, Building Designe Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.

3. The wood components shown on this diagram are be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plate and hangers are galvanized to the G60 Standard unle noted otherwise.

4. Refer to the Truss Design Drawings for specific

information about each individual truss design. 5. The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building Designer.

6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written authorization.

7. Floor Trusses have been spaced as specified in the plans or as directed by the contractor / customer. BFS recommends that the contractor / customer consider economics, floor performance, floor coverings, and accessibility when selecting the floor truss spacing. 8. Inflexible floor coverings, such as ceramic tile, require careful consideration and planning by the contractor. The contractor shall select and use an approved floor covering assembly for the chosen floor covering and floor truss spacing used in the project. Ceramic tile assemblies are shown in the TCNA Handbook for Ceramic, Glass, and Stone Installation. Builders FirstSource is not responsible for floor coveri related issues.

9. The builder / owner is to inform Builders FirstSource of any additional loads placed on floor trusses, such as loads from structural members, heavy granite island countertops, fireplace surrounds, etc. If we do not not these additional loads on the placement diagram or truss design drawings, then they have not been added 10. This Placement Diagram may show approximate plumbing drop locations with a corresponding truss layout. With or without this information, the contract shall insure that the installer verifies all plumbing locations and installs trusses to avoid interference. Consider all plumbing such as toilets, tub drain and overflow, showers, etc. The contractor shall also pla for other potential utility conflicts.

11. Floor truss spacing may be altered to avoid plumbing interference. Avoid overloading single truss due to truss spacing shifts. Do not exceed allowable span rating of the subfloor sheathing used.

12. Floor trusses shall be fully sheathed on the top chord. The builder shall select structural sheathing th meets the truss spacing requirement as well as the desired long term performance characteristics for the specific assembly.

. 13. Strongbacks are either recommended or required as Shown on the Truss Design Drawings. BFS recommends installing strongbacks for all floor trusse to improve floor performance and allow load sharing between trusses.

14. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation desig structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor.

#### **WARNING:**

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH Espanol - (TRUSSES (CERCHAS) DEBERAN TENER U SOPORTE DURANTE LÀ INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.) Trusses shall be installed in a safe manner meeting

all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death.

2. Floor trusses shall be temporarily restrained during installation. DO NOT WALK ON UNRESTRAINED FLOOR TRUSSES. Unrestrained floor trusses may suddenly collapse or roll over and may cause injury or death.

3. BCSI INSTRUCTIONS SHALL BE FOLLOWED:

BCSI-B7 = Floor Truss Installation



Grove

Shady

\_

Lot

Plan

Meadows I

NC

Harnett Co.,

3822916

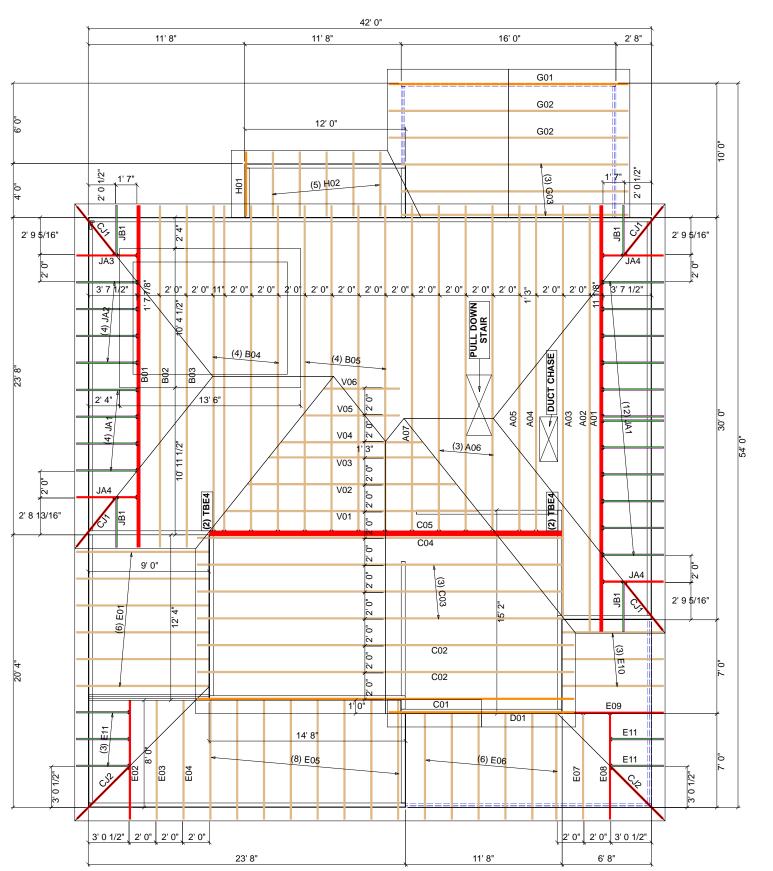
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NTS



Truss Connector List					
Supported Mtl	Product	Qty	Supporting Mtl		
A04-A07,B04,B05	HTU26	14	C05		
E01-E05,H02	HTU26	22	FLOOR BEAMS		
E07,E08	HTU26	2	E09		
C05	TBE4	4	TOP PLATE		

Truss Connector Total List					
Qty	Product	Manuf			
38	HTU26				
4	TBE4				



#### **ROOF TRUSS NOTES:**

DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss. **Espanol** - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para asistencia ANTES de realizar cualquier modification.)

- 1. This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagrar has been prepared by a Truss Technician and is no an engineered drawing.

  2. The responsibilities of the Owner, Building
- Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard.
- 3. The wood components shown on this diagram ar to be used in dry service (moisture content < 19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G6 Standard unless noted otherwise.4. Refer to the Truss Design Drawings for specific information about each individual truss design.5. The Truss Technician shall provide Truss-to -Truss Connection Requirements, Any special or other connection sha be the responsibility of the Building Designer. 6. The Truss Placement Diagram and Truss Design
- Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written authorization.
- 7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents.
- 8. Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the loadis distributed uniformly over multiple truss locations and not concentrated at one location or along one truss. 9. Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24" O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper Bracing prevents buckling of individual trus members due to design loads.
- 10. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, a Contractor.
- 11. If Piggyback Trusses are included in this project, refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load category. 12. The Contractor shall follow the SBCA TTB
- Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board related issues.

#### WARNING:

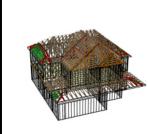
TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT INJURY OR DEATH. **Espanol** - (TRUSSES (CERCHAS) DEBERAN TENER UN SOPORTE DURANTE LA INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.) . Trusses shall be installed in a safe manner

meeting all code, local, OSHA, TPI, and BCSI Specifications. failure to follow these specification may result in injury or death. 2. Buildings under construction are vulnerable to

high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse weather conditions and shall take appropriate action to prevent injury or death.

### 3. BCSI INSTRUCTIONS SHALL BE FOLLOWED

- BCSI-B1 = Safe Truss Handling and Installation BCSI-B2 = Installation and Temporary Restraint
- BCSI-B3 = Permanent Restraint
- BCSI-B4 = Safe Construction Loading
- BCSI-B5 = Truss Damage and Modification
- Guidelines BCSI-B7 = Floor Truss Installation
- BCSI-B8 = Toe-Nailed Connections BCSI-B9 = Multi-Ply Girders
- BCSI-B10 = Post Frame Truss Installation
- BCSI-B11 = Fall Protection 4. Follow TPI Requirements for Long Span Trusses



Grove

Shady

Lot 1

Plan

Meadows

NC

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1/12/2024

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