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

HEIGHT TO RIDGE: 25'-6" MEAN ROOF HEIGHT: 17'-2"

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"

I	COMPONENT	% CLA	DDING	DESIG	NED FO	R THE	FOLLO	WING	LOADS
I	MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
I	ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8
I	ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
I	ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
I	ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9
Į	ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4

DESIGNED FOR WIN	D SPEED	OF 130 MF	7H, 3 SECU	ו צטט עמע	(101 FAS	LEST MITE	) EXPUSU	KE B
COMPONENT	% CLA	DDING	DESIG	NED FC	R THE	FOLLO'	WING I	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	-20.2
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
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 = 2,111 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.07 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 = 7.04 SQ.FT.

### **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:** 

- 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 *guard* 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 43/8 inches (111 mm) in diameter.

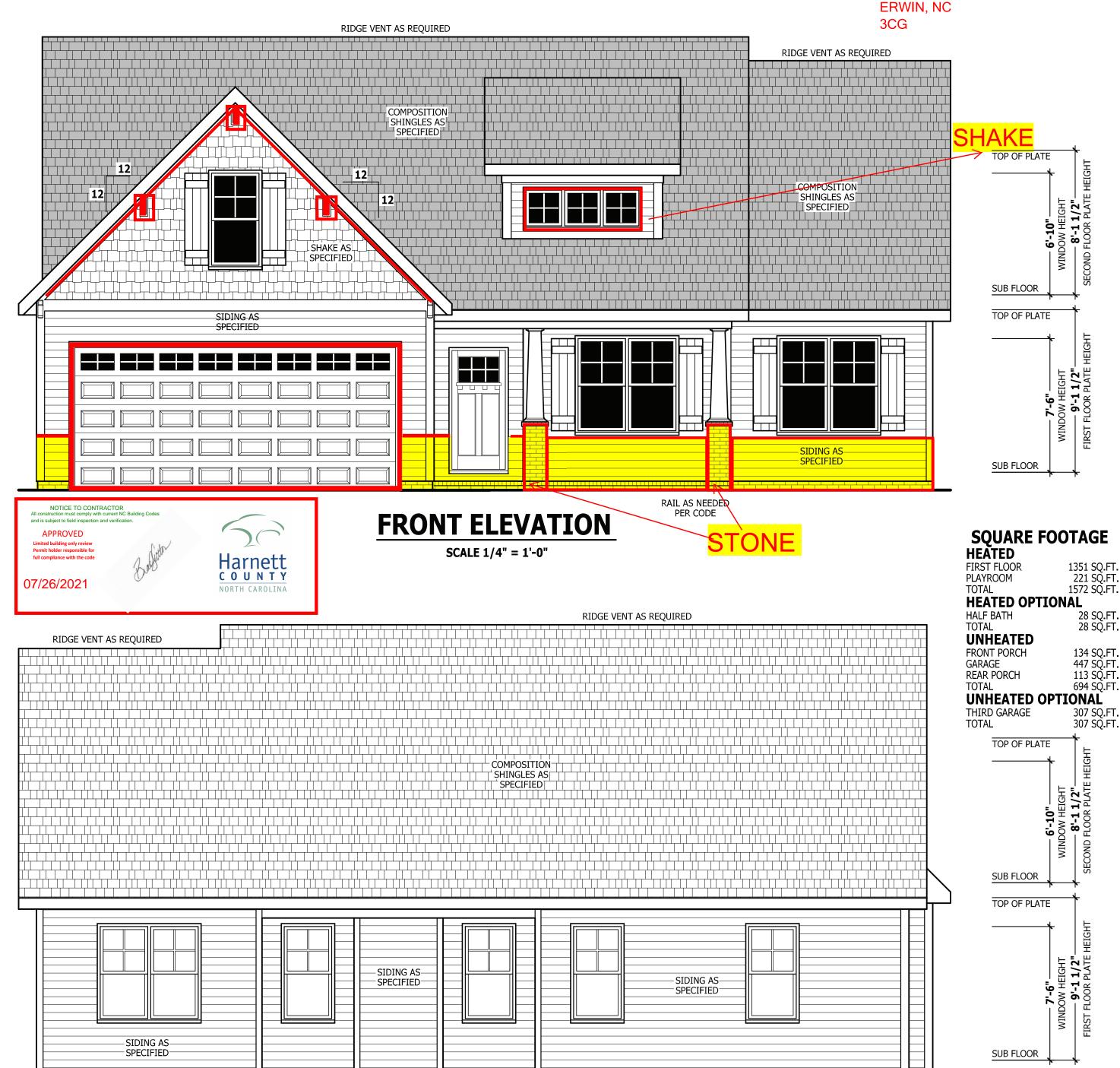
### **AIR LEAKAGE**

### Section N1102.4

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

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

HVAC: CAROLINA COMFORT, LLC PLUMBING: DOUBLE J PLUMBING **ELECTRICAL: PIONEER ELECTRIC** 



**REAR ELEVATION** 

RAIL AS NEEDED

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR

LOT 4B WILLIAMS FARM

1902 JOSIE WILLIAMS RD

CONTRACTORS PRACTICES AND PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTE

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

**ELEVATIONS** AIR. SINCL REAR

8

**FRONT** 

SQUARE FOOTAGE HEATED FIRST FLOOR 1351 SQ.FT
PLAYROOM 221 SQ.FT
TOTAL 1572 SQ.FT
HEATED OPTIONAL TOTAL
UNHEATED
FRONT PORCH GARAGE REAR PORCH REAR PORCH 113 SQ. FT TOTAL 694 SQ. FT UNHEATED OPTIONAL

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PAGE 1 OF 8

 $^{\perp}$ COMPOSITION $_{ op}$ 

RIDGE VENT AS REQUIRED

# **LEFT SIDE ELEVATION**

- SIDING AS-- SPECIFIED-

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL
DIMENSIONS AND CONDITIONS
BEFORE CONSTRUCTION BEGINS.
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BEFORE CONSTRUCTION,

BEFORE CONSTRUCTION.
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PRITY OF THE DES

TOP OF PLATE

SUB FLOOR

SUB FLOOR

TOP OF PLATE

SUB FLOOR

TOP OF PLATE

SUB FLOOR

odnim

RIDGE VENT AS REQUIRED

COMPOSITION SHINGLES AS SPECIFIED

TOP OF PLATE

RIGHT ELEVATIONS SINCLAIR

MES S 19.606.4696

FOME PLANS, INC. 1864, 1975, 1

 SQUARE FOOTAGE

 HEATED
 1351 SQ.FT.

 FIRST FLOOR
 1351 SQ.FT.

 PLAYROOM
 221 SQ.FT.

 TOTAL
 1572 SQ.FT.

 HEATED OPTIONAL
 140 PM.

 HALF BATH
 28 SQ.FT.

 TOTAL
 28 SQ.FT.

 UNHEATED
 FRONT PORCH

 GARAGE
 447 SQ.FT.

 GARAGE
 494 SQ.FT.

 TOTAL
 694 SQ.FT.

 UNHEATED OPTIONAL
 THIRD GARAGE

 TOTAL
 307 SQ.FT.

 TOTAL
 307 SQ.FT.

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PROCEDURES.

CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTE BEFORE CONSTRUCTION.

ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION, THESE DRAWING ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

MONOLITHIC SLAB PLAN
SINCLAIR

VE VER - HOME S 910.630.2100 • 919.606.4696

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1351 SQ.FT.
PLAYROOM 221 SQ.FT.
TOTAL 1572 SQ.FT.
HEATED OPTIONAL
BATH 49 SQ.FT.
UNHEATED
FRONT PORCH 134 SQ.FT.
GARAGE 447 SQ.FT.
REAR PORCH 113 SQ.FT.
TOTAL 694 SQ.FT.
UNHEATED OPTIONAL
FI. 3RD GAR 307 SQ.FT.
EX 3RD GAR 573 SQ.FT.
EX 3RD GAR 573 SQ.FT.

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### **STRUCTURAL NOTES**

construction practice and the building code.

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

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

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

### **ENGINEERED WOOD BEAMS:**

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> 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

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.

9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2"

### **BRACE WALL PANEL NOTES**

**CONCRETE AND SOILS:** See foundation 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.

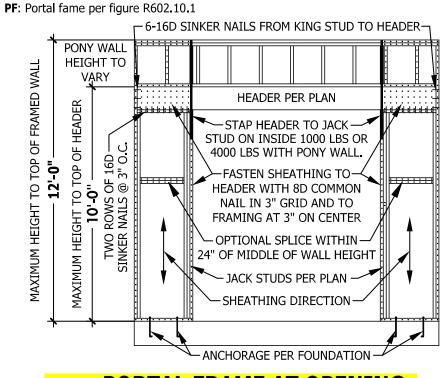
Methods Per Table R602.10.1

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

**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.

supports with 1 1/2" long x 0.12" diameter galvanized roofing



# PF 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

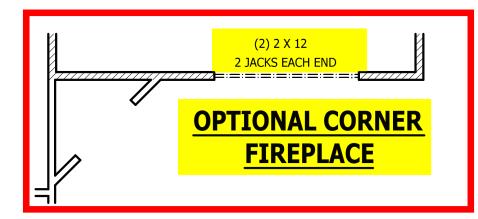
 - KING STUDS EACH END PER TABLE BELOW

 HEADER SPAN
 < 3'</td>
 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



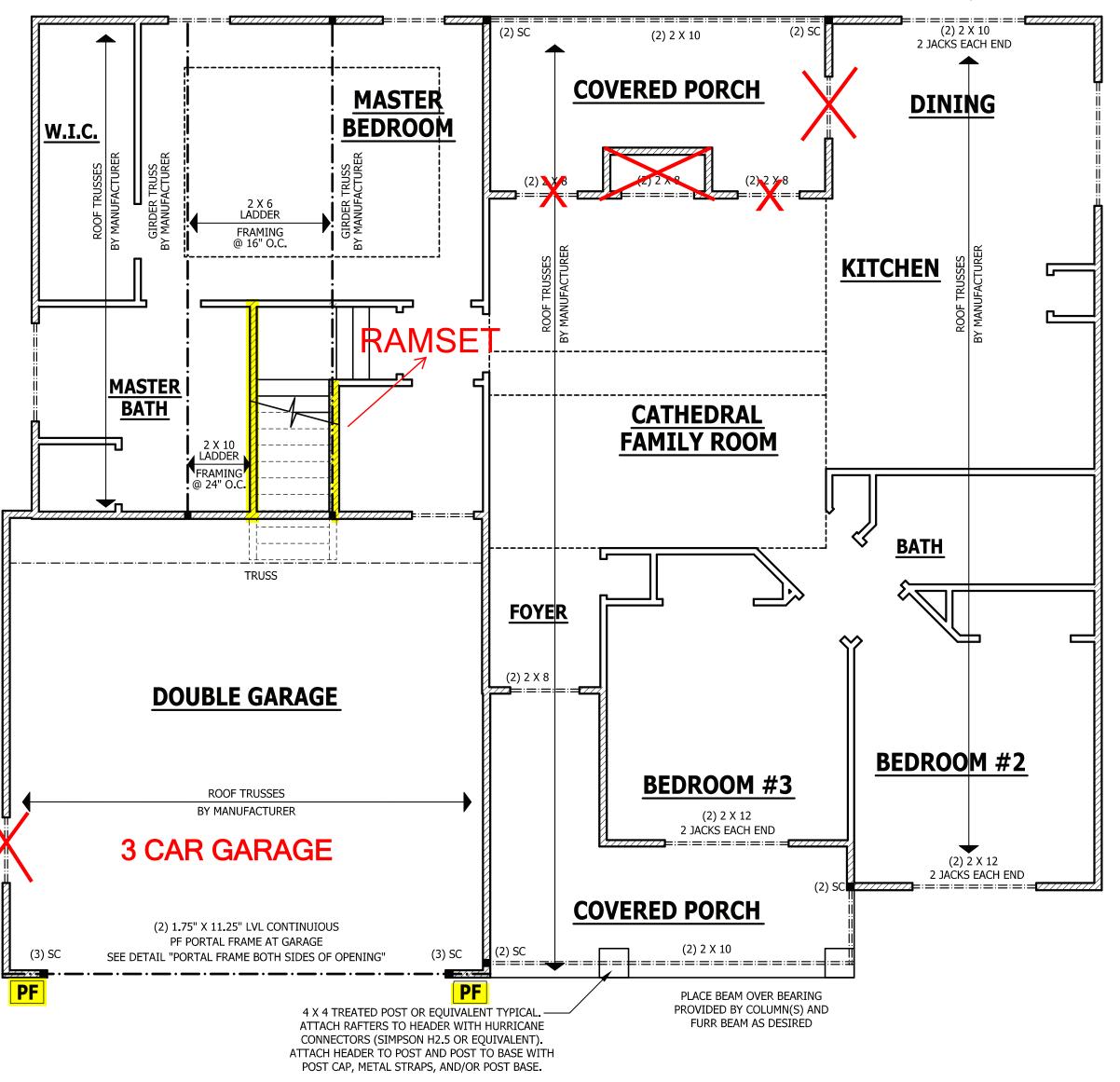
### **ROOF TRUSS REQUIREMENTS**

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.



# FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.

PROCEDURES.

CODES AND CONDITIONS MAY
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ENGINEER SHOULD BE CONSULTE
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THESE DRAWING ARE

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ENGINEER SHOULD BE CONSULTED
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PROPERTY OF THE DESIGNER.

FIRST FLOOR STRUCTURAL SINCLAIR

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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
Cnau	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.

### **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.

### **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

### **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

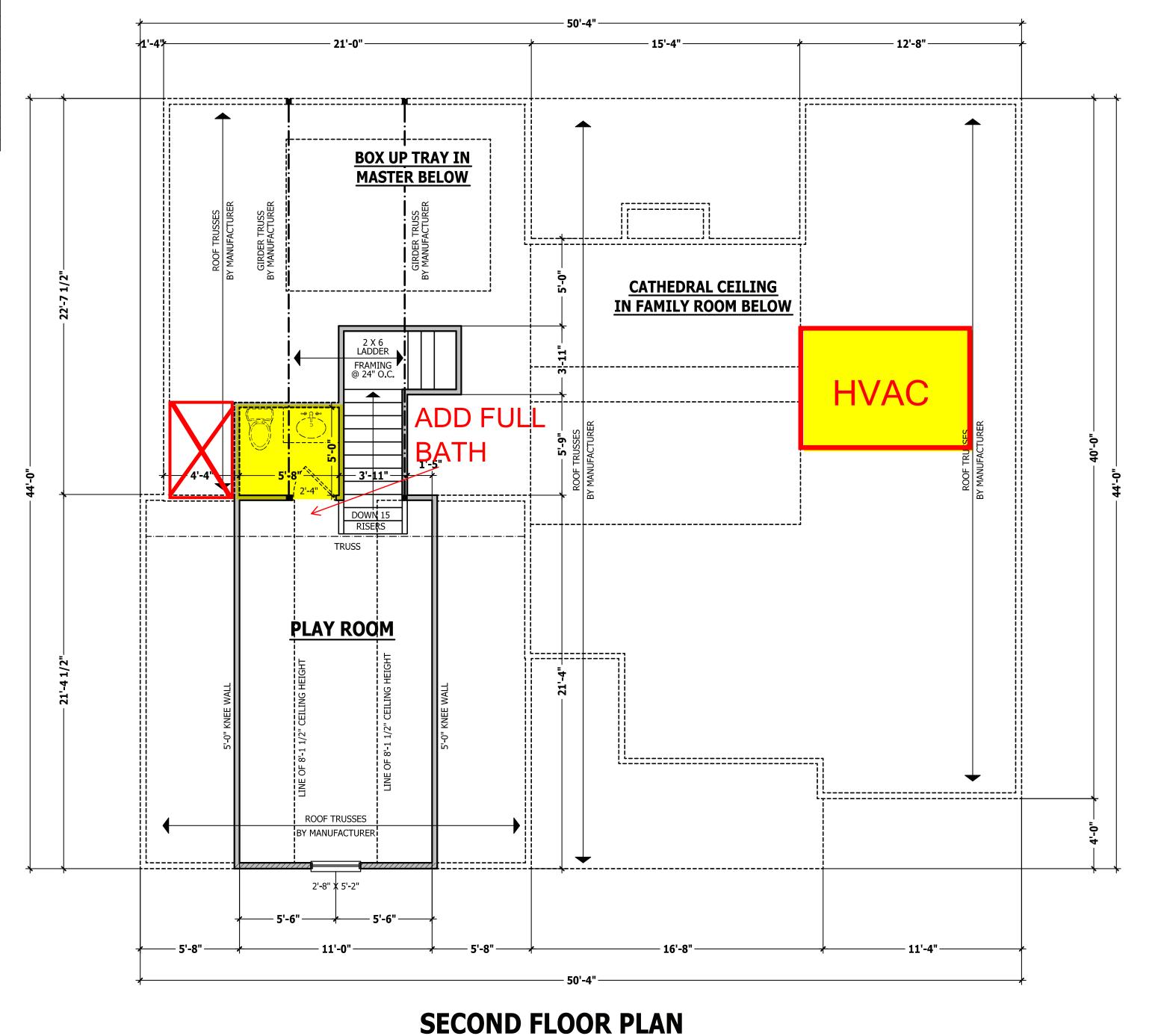
### Exceptions:

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.

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



SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY AL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR

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THESE DRAWING ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**SECOND FLOOR PLAN** AIR. SINCL

SQUARE FOOTAGE HEATED TOTAL 1572
HEATED OPTIONAL TOTAL
UNHEATED
FRONT PORCH GARAGE REAR PORCH TOTAL 694 SQ.F

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### **WALL THICKNESSES**

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

## **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.

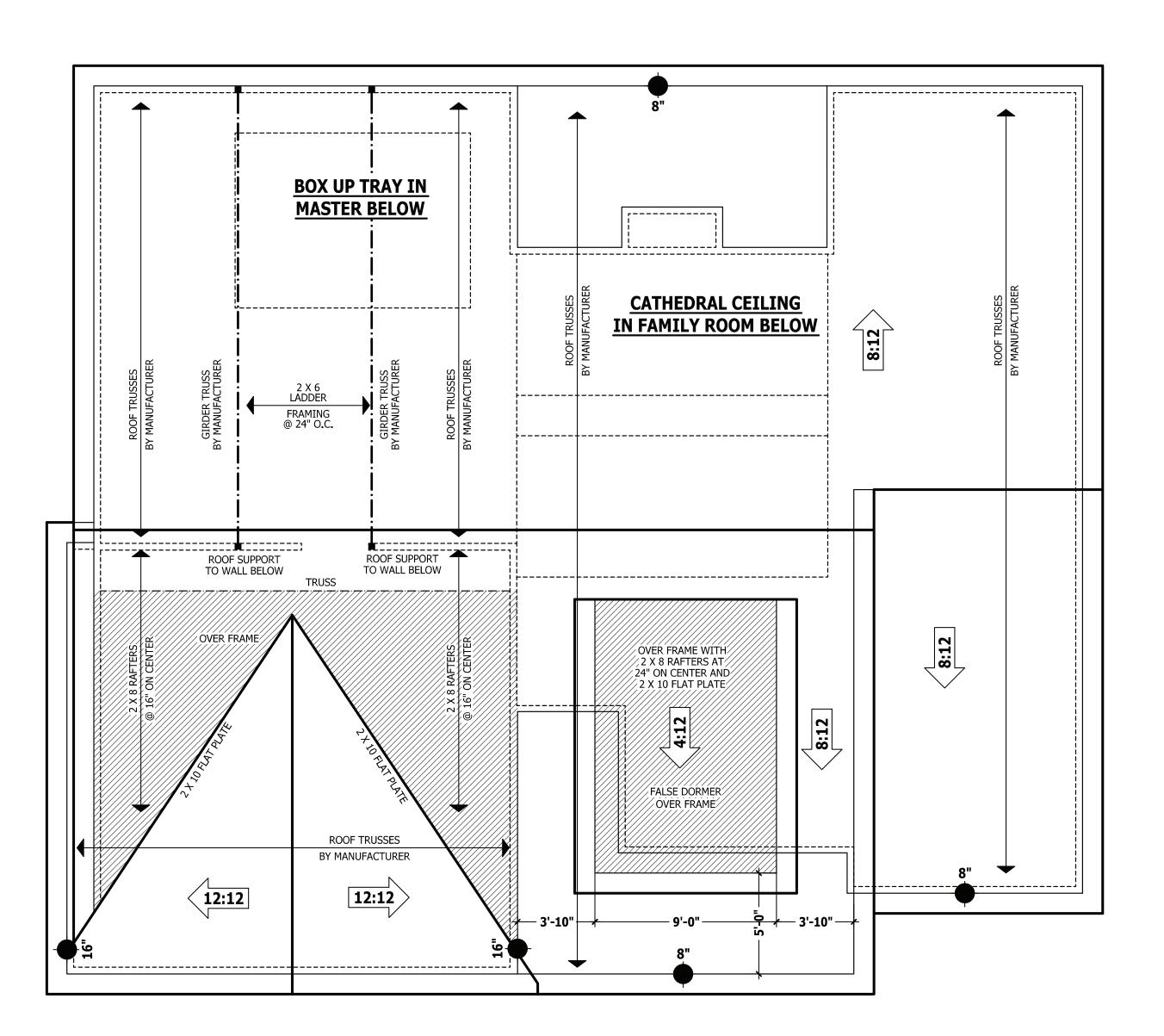
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics.

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



ROOF PLAN
SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL
DIMENSIONS AND CONDITIONS
BEFORE CONSTRUCTION BEGINS.
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PROCEDURES.

CODES AND CONDITIONS MAY VARY WITH LOCATION, A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION, THESE DRAWING ARE INSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

ROOF PLAN

SINCLAIR

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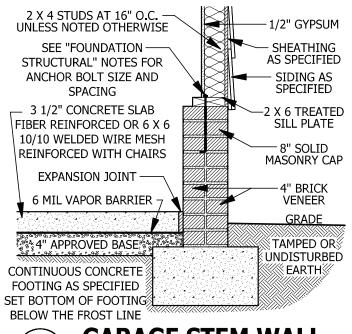
SQUARE FOOTAGE
HEATED
FIRST FLOOR 1351 SQ.FT.
PLAYROOM 221 SQ.FT.
TOTAL 1572 SQ.FT.
HEATED OPTIONAL
HALF BATH 28 SQ.FT.
TOTAL 28 SQ.FT.
UNHEATED
FRONT PORCH 134 SQ.FT.
GARAGE 447 SQ.FT.
TOTAL 694 SQ.FT.
TOTAL 694 SQ.FT.
TOTAL 694 SQ.FT.
UNHEATED OPTIONAL
THIRD GARAGE 307 SQ.FT.
TOTAL 307 SQ.FT.

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

### **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**

see Chapter 45.

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

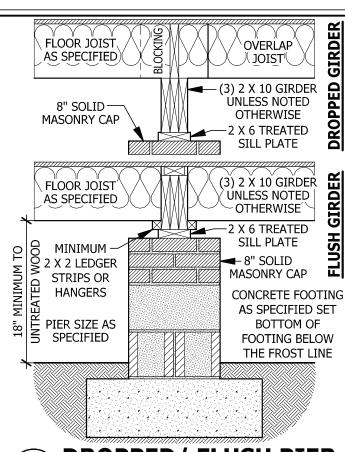
AM109.1.1. When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section AM104, lateral bracing is not required.

**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 brace per Figure AM109.1

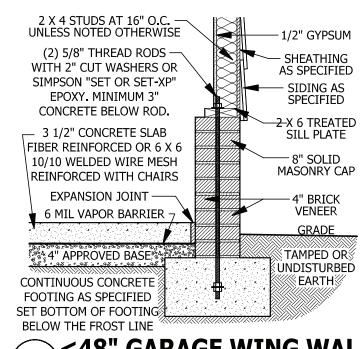
AM109.1.3. For freestanding decks without knee braces or AS SPECIFIED diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

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

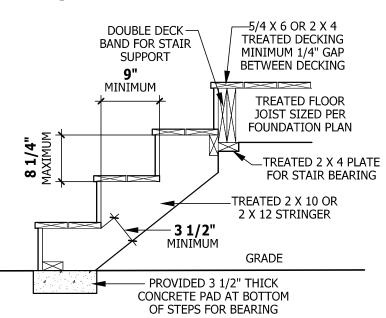
AM109.1.4. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer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



### **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"

-STONE VEENER

AS SPECIFIED

VAPOR BARRIER

-WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

-TO PAVEMENT

SHEATHING

I ATH-

SEE FOUNDATION

FOR FOUNDATION

**DETAILS** 

**WEEP SCREED** 

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.

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* 

2 X 4 STUDS AT 16" O.C.

UNLESS NOTED OTHERWISE

SPECIFIED

FLOOR JOIST

AS SPECIFIED

2 X 6 TREATED

SILL PLATE

SEE "FOUNDATION-

STRUCTURAL" NOTES FOR

ANCHOR BOLT SIZE AND

SPACING

CONTINUOUS CONCRETE

FOOTING AS SPECIFIED

SET BOTTOM OF FOOTING

1/2" GYPSUM-

2 X TREATED— HOUSE BAND

SUB FLOOR AS -

SPECIFIED

FLOOR JOIST AS SPECIFIED

2 X 6 TREATED SILL PLATE

8" SOLID — MASONRY CAP

TAMPED OR

SUB FLOOR AS-

-1/2" GYPSUM

2 X 4 SILL

-2 X RIM

JOIST

8" SOLID

MASONRY CAP

4" CONCRETE

BLOCK

-4" Brick veneer

-6 MIL VAPOR

BARRIER

3 1/2" SLAB

4" BAŜE

TAMPED OR

UNDISTURBED

FOR SLAB SUPPORT

M-TREATED GIRDER

TREATED POST

8 X 16 VEN

GRADE

CRAWL SPACE AT GARAGE

SCALE 3/4" = 1'-0"

- 2 X 4 SOLE PLATE

FILLED PORCH SECTION WITH VENT

VITH (2) 1/2" HOT-DIPPE GALVANIZED BOLTS

/4 X 6 OR 2 X 4 TREATED

GAP BETWEEN DECKING

FLASHING

FOUNDATION PLAN

ATTACH JOIST WITH HANGERS -OR TREATED 2 X 2 LEDGER

5/8" HOT-DIPPED GALVANIZED

BOLTS AT 1'-8" O.C. MINIMUM 2 L/2" FROM EDGE WITH (3) 12d

COMMON HOT-DIPPED

GALVANIZED NAILS AT 6" O.C.

G DECK ATTACHMENT

**SMOKE ALARMS** 

equipment provisions of NFPA 72.

**R314.1 Smoke detection and notification.** All smoke alarms shall be

listed in accordance with UL 217 and installed in accordance with

**R314.2 Smoke detection systems.** Household fire alarm systems

a combination of smoke detector and audible notification device

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

device(s), it shall become a permanent fixture of the occupancy and

approved supervising station and be maintained in accordance with

owned by the homeowner. The system shall be monitored by an

using a combination of smoke detector and audible notification

**Exception:** Where smoke alarms are provided meeting the

installed as required by this section for smoke alarms, shall be

installed in accordance with NFPA 72 that include smoke alarms, or

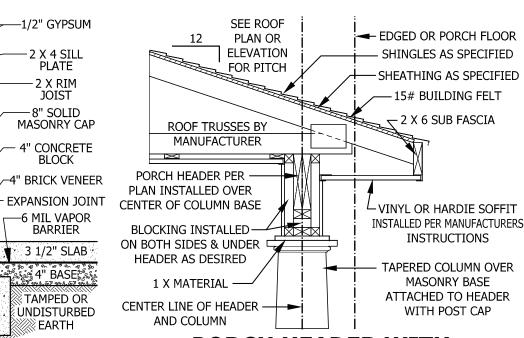
the provisions of this code and the household fire warning

FLASHING MINIMUM 16" WIDE

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.



# **PORCH HEADER WITH TAPERED COLUMN**

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

# **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

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 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).

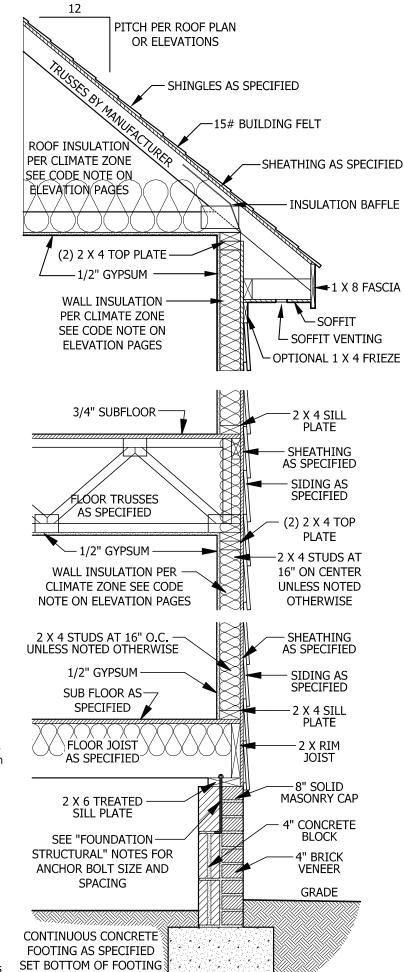
1. The use of a volute, turnout or starting easing shall be allowed over the

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.



MAXIMUM 6" GAP BETWEEN WALL MOUNTED AND OPEN RAIL CONTINUOUS HANDRAIL 34 TO 38 INCHES ABOVE TREAD NOSING

TYPICAL WALL DETAIL

SCALE 3/4" = 1'-0"

BELOW THE FROST LINE

TYPICAL STAIR DETAIL

DIMENSIONS AND CONDITION BEFORE CONSTRUCTION BEGINS HAYNES HOME PLANS INC ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES ANI PROCEDURES.

PURCHASER MUST VERIFY AL

CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCA DESIGNER, ARCHITECT OR NGINEER SHOULD BE CONSULT BEFORE CONSTRUCTION, THESE DRAWING ARE NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

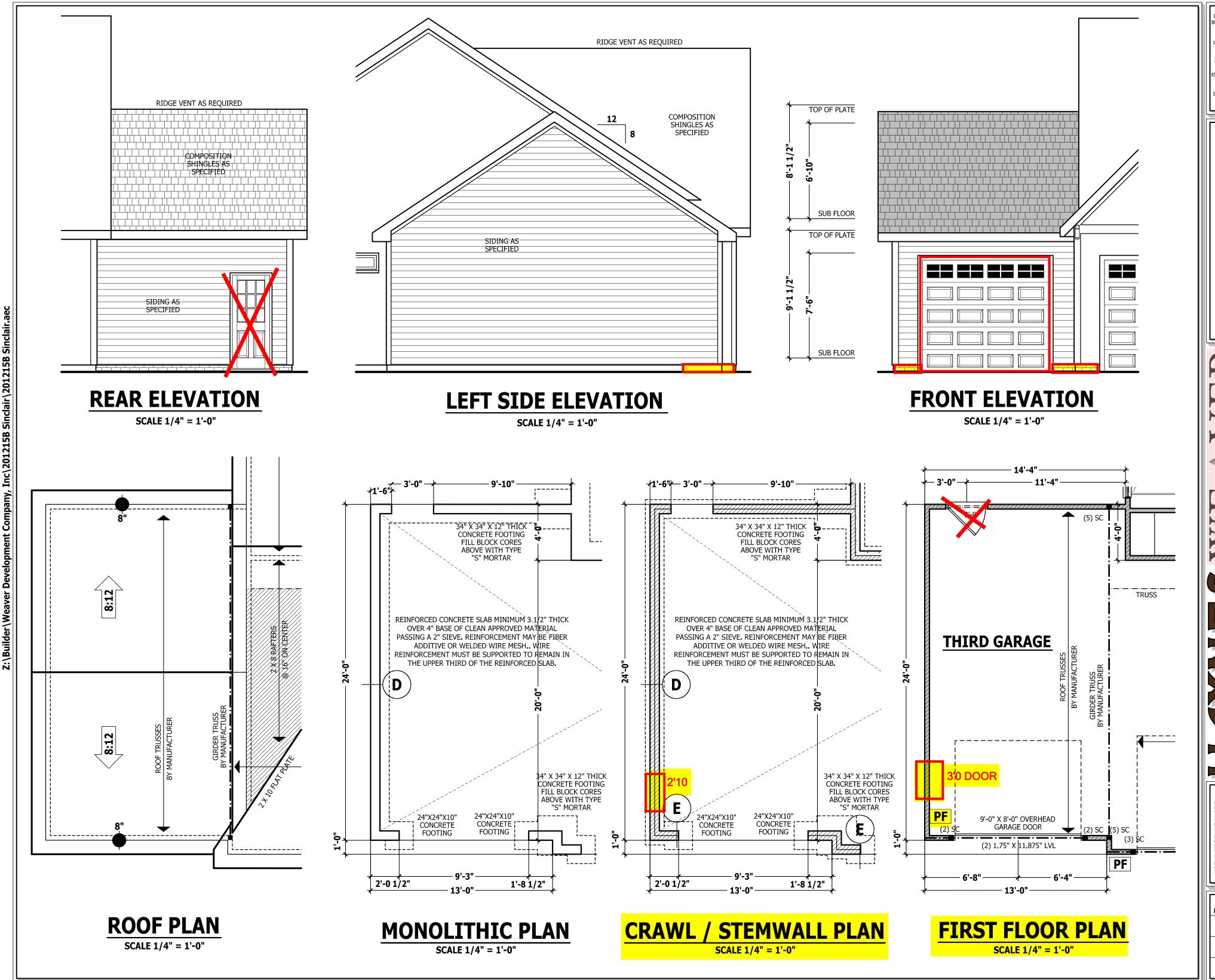
**DETAIL** IR 4 SINCL **TYPICAL** 

SQUARE FOOTAGE HEATED TOTAL 1572 SQ.F TOTAL
UNHEATED
FRONT PORCH GARAGE REAR PORCH TOTAL 694 SQ.F UNHEATED OPTIONAL 307 SQ FT 307 SQ FT

Haynes Home Plans, Inc. 3/6/2020 190320B

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**PAGE 8 OF 8** 



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

THIRD CAR GARAGE

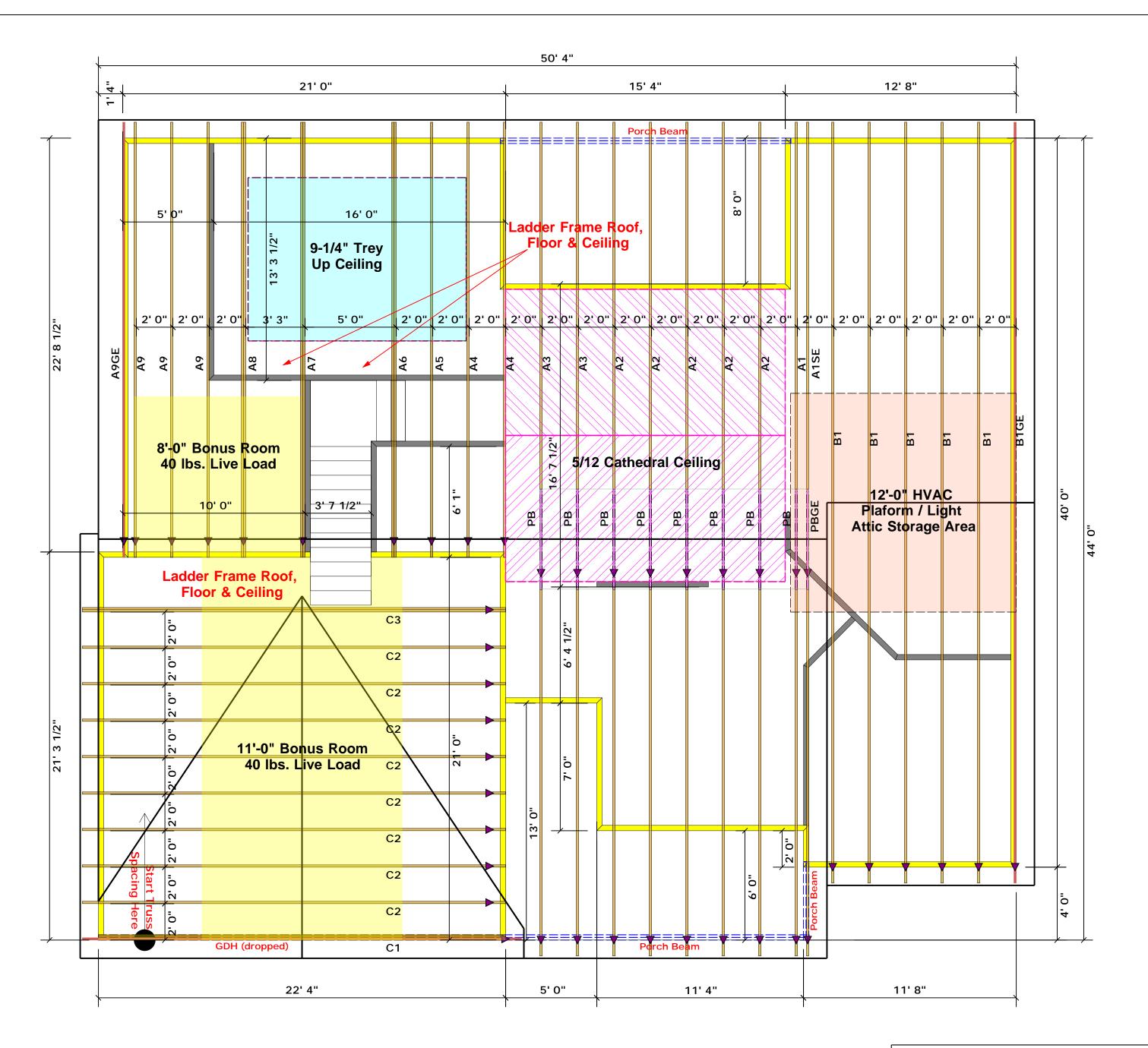
SINCLAIR

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1351 SQ.FT.
PLAYROOM 221 SQ.FT. HEATED OPTIONAL
BATH 49 SQ.FT.
UNHEATED
FRONT PORCH 134 SQ.FT.
GARAGE 447 SQ.FT.
REAR PORCH 113 SQ.FT.
TOTAL 694 SQ.FT.
UNHEATED OPTIONAL
FL 3RD GAR 307 SQ.FT.
EX 3RD GAR 375 SQ.FT.
EX 3RD GAR 573 SQ.FT.

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12/17/2020

190320B **ADDENDUM** 



**Truss Placement Plan SCALE:** 1/4" = 1'0"

▲ = Denotes Left End of Truss (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

		Products		
PlotID	Length	Product	Plies	Net Qty
GDH (dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2



Lenny Norris

### LOAD CHART FOR JACK STUDS

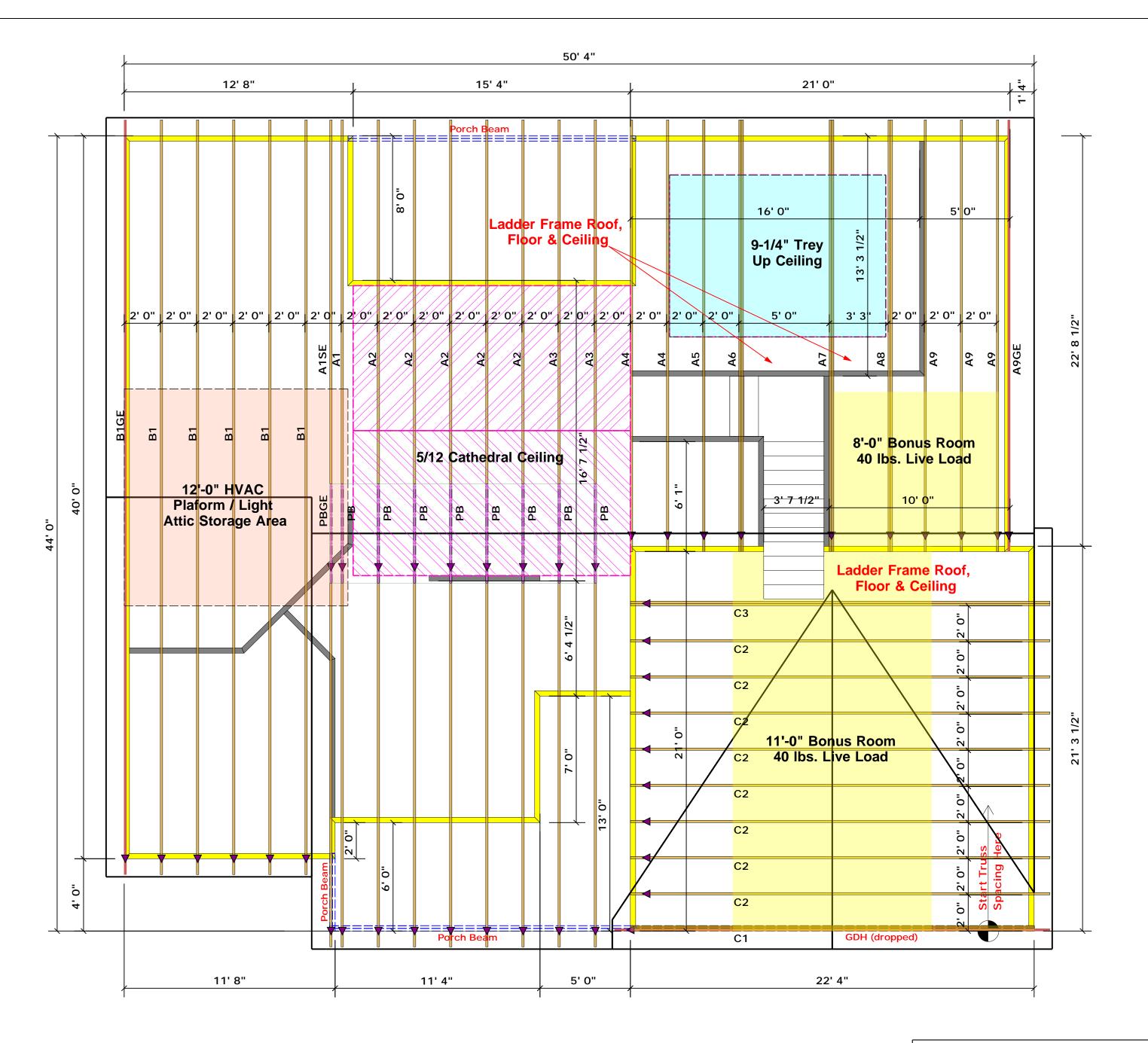
(8ASÉD ON TABLÉS ROCES(1) & (b)) NUMBER OF JACK STUDS REQUIRED 8 EA END OF

		- 1	HEADER/6	STROER		
END REACHON (UP 10)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ15 STUDS FOR (3) ALY HEADER	END REACTION (UP TO)	REQ10 STUDS FOR (4) PLY HEADER
1700	1		2550	1	3400	1
3400	2		5100	2	6800	2
5100	3		7650	3	10200	3
6800	4		10200	4	13600	4
8500	5		12750	5	17000	5
10200	6		15300	6		
11900	7					
13600	8					
15300	9					

Weaver Development Co. Inc.	COUNTY	Harnett
Lot 4B Williams Farm	ADDRESS	ADDRESS Lot 4B Williams Farm
Sinclair (190320B)	MODEL	Model
Seal Date	DATE REV. / /	11
Quote #	DRAWN BY	DRAWN BY Lenny Norris
J0521-2959	SALESMAN	SALESMAN Lenny Norris

**BUILDER** THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

JOB

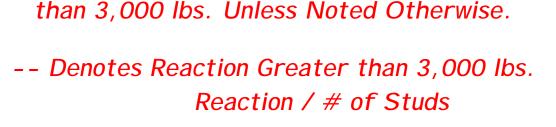


Truss Placement Plan SCALE: 1/4" = 1'0"

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

Products							
PlotID	Length	Product	Plies	Net Qty			
GDH (dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2			



# ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Lenny Norris

\_\_\_\_\_

LOAD CHART FOR JACK STUDS

(BASED ON TABLES ROCED(I) & (b))

NUMBER OF JACK STUDS REQUIRED & EA END OF HEADER/STEDER

		HENDER	1/6	RDER		
ENG REACHON (UP 10)	REQ'D STUDS FOR (2) PLY HEADER	ENS REACTION (UP TD)		(3) ALY HEADER	END REACTION (UP TO)	REQ16 STUBS FOR
1700	1	2550		1	3400	1
3400	2	5100	)	2	6800	3
5100	3	7650	)	3	10200	3
6800	4	1020	0	4	13600	
8500	5	1275	0	5	17000	5
0200	6	1530	٥	6		
1900	7					
3600	8					
5300	9					
			Π			

Harnett	Lot 4B Williams Farm	Model	//	DRAWN BY Lenny Norris	SALESMAN   Lenny Norris
COUNTY	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALESMAN
JC.					

BUILDER Weaver Development Co. In
JOB NAME Lot 4B Williams Farm
PLAN Sinclair (190320B)
SEAL DATE Seal Date
QUOTE # Quote #

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Client: Project: Address: Weaver Development Sinclair (190320B) Sinclair (190320B) Date: 6/7/2021 Input by:

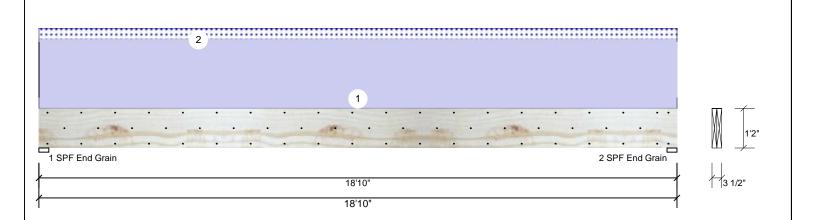
Christine Shivy

Page 1 of 1

Job Name: GDH Project #:

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL GDH** 

Level: Level



Member Information				Reaction	Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	0	2598	377	0	0		
Moisture Condition	: Dry	Building Code:	IBC 2012	2	0	2598	377	0	0		
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	360	Deck:	Not Checked								
Importance:	Normal										
Temperature:	Temp <= 100°F										
				Bearing	Bearings						
				Bearing	Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb.						

1 - SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain 28%

28%

2598 / 377

2598 / 377

2975 L

2975 L

D+S

D+S

### Analysis Results

The state of the s								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case		
Moment	11644 ft-lb	9'5"	24299 ft-lb	0.479 (48%)	D	Uniform		
Unbraced	13332 ft-lb	9'5"	13339 ft-lb	0.999 (100%)	D+S	L		
Shear	2213 lb	1'4 3/4"	9408 lb	0.235 (24%)	D	Uniform		
LL Defl inch	0.068 (L/3239)	9'5 1/16"	0.459 (L/480)	0.150 (15%)	S	L		
TL Defl inch	0.538 (L/410)	9'5 1/16"	0.612 (L/360)	0.880 (88%)	D+S	L		

### Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 7'8 5/8" o.c.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width

/ Lateral slenderness ratio based on single ply width.											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	225 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Siding / Plywood	
2	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'0" Roof Load	ı
	Self Weight				11 PLF						

### Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive

- Handling & Installation
- Handling & Installation

  1. UVI beams must not be out or drilled

  2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

  3. Damaged Beams must not be used

  4. Design assumes top edge is laterally restrained

  5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 2/26/2023 CSD I