PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 19'-8	3"	HEIGHT TO R	RIDGE: 27'-8"
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 WIN	D SPEED	OF 120 MF	H, 3 SECC	JND GUST	(93 FAST	EST MILE)	EXPUSUR	(FR
COMPONENT	& CLA	DDING	DESIG	NED FC	R THE	FOLLO	WING I	_OADS
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
70NF 5	15.5	-20 0	16.3	-21 0	16 9	-21.8	17 4	-22 4

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 = 2,128 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.18 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 = 7.09 SQ.FT.

9/05/2023

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 treads.

2. Where the top of the *guard* also serves as a handrail on the open sides of stairs, the top of the *quard* shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

R312.3 Opening limitations. Required *guards* shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches (102 mm)in diameter.

Exceptions:

- 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.

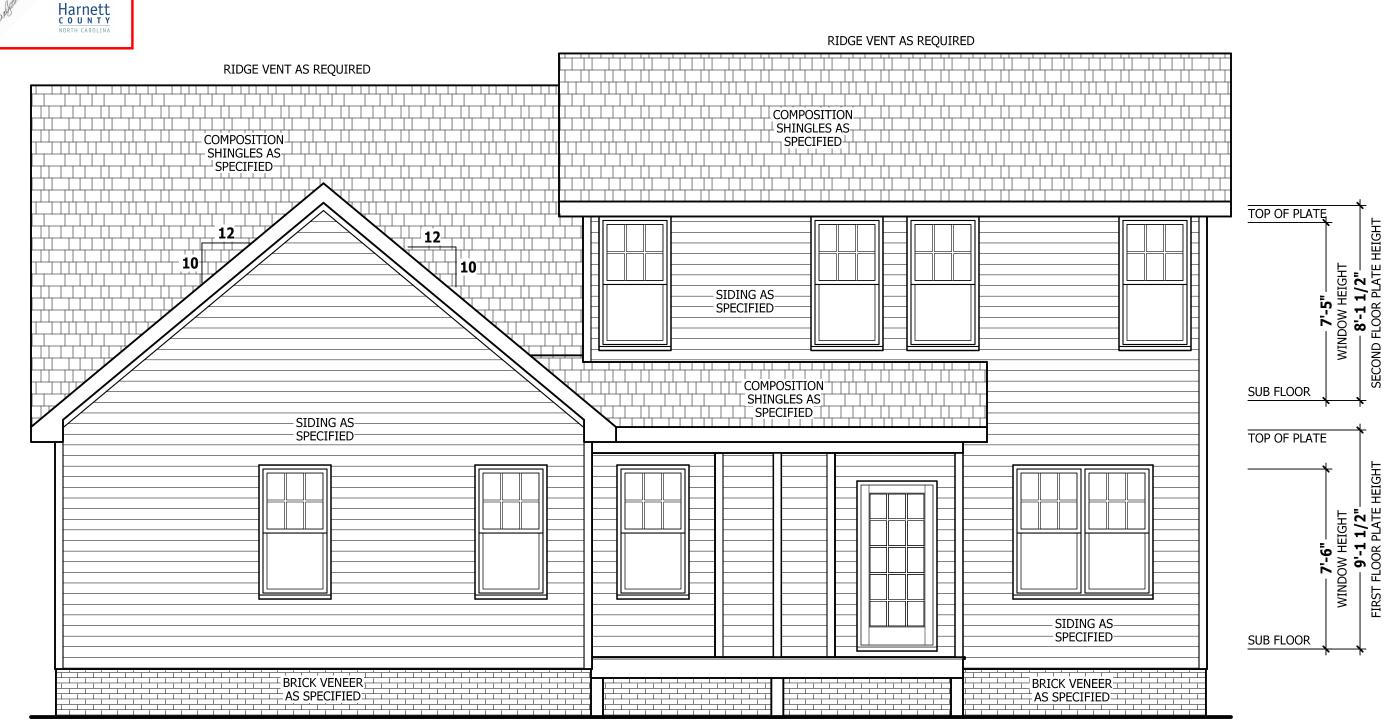
RIDGE VENT AS REQUIRED



RAIL AS NEEDED PER CODE

FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

RAIL AS NEEDED PER CODE

SCALE 1/4" = 1'-0"

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ELEVATION MAGNOLIA

REAR

∞

FRONT

SQUARE FOOTAGE
HEATED FIRST FLOOR SECOND FLOOR PLAYROOM TOTAL UNHEATED FRONT PORCH

GARAGE SCREENED PORCH TOTAL

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PAGE 1 OF 8

SCALE 1/4" = 1'-0"

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,

RIGHT ELEVATION

∞

LEFT

SIGNATURE HOME BUILDERS, INC.

SQUARE FOOTAGE
HEATED
FIRST FLOOR
SECOND FLOOR
PLAYROOM
TOTAL
UNHEATED
FRONT PORCH
GARAGE
SCREENED PORCH
TOTAL
TOT

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4 SLAB **MAGNOLI** STEMWALL

SQUARE FOOTAGE
HEATED

FIRST FLOOR SECOND FLOOR PLAYROOM

TOTAL UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL

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SCALE 1/4" = 1'-0"

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CRAWL SPACE PLAN
MAGNOLIA

SIGNATURE HOME BUILDERS, INC.

SQUARE FOOTAGE
HEATED
FIRST FLOOR 1354 SQ.FT.
SECOND FLOOR 589 SQ.FT
PLAYROOM 373 SQ.FT
TOTAL 2316 SQ. FT

PLAYROOM TOTAL UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL

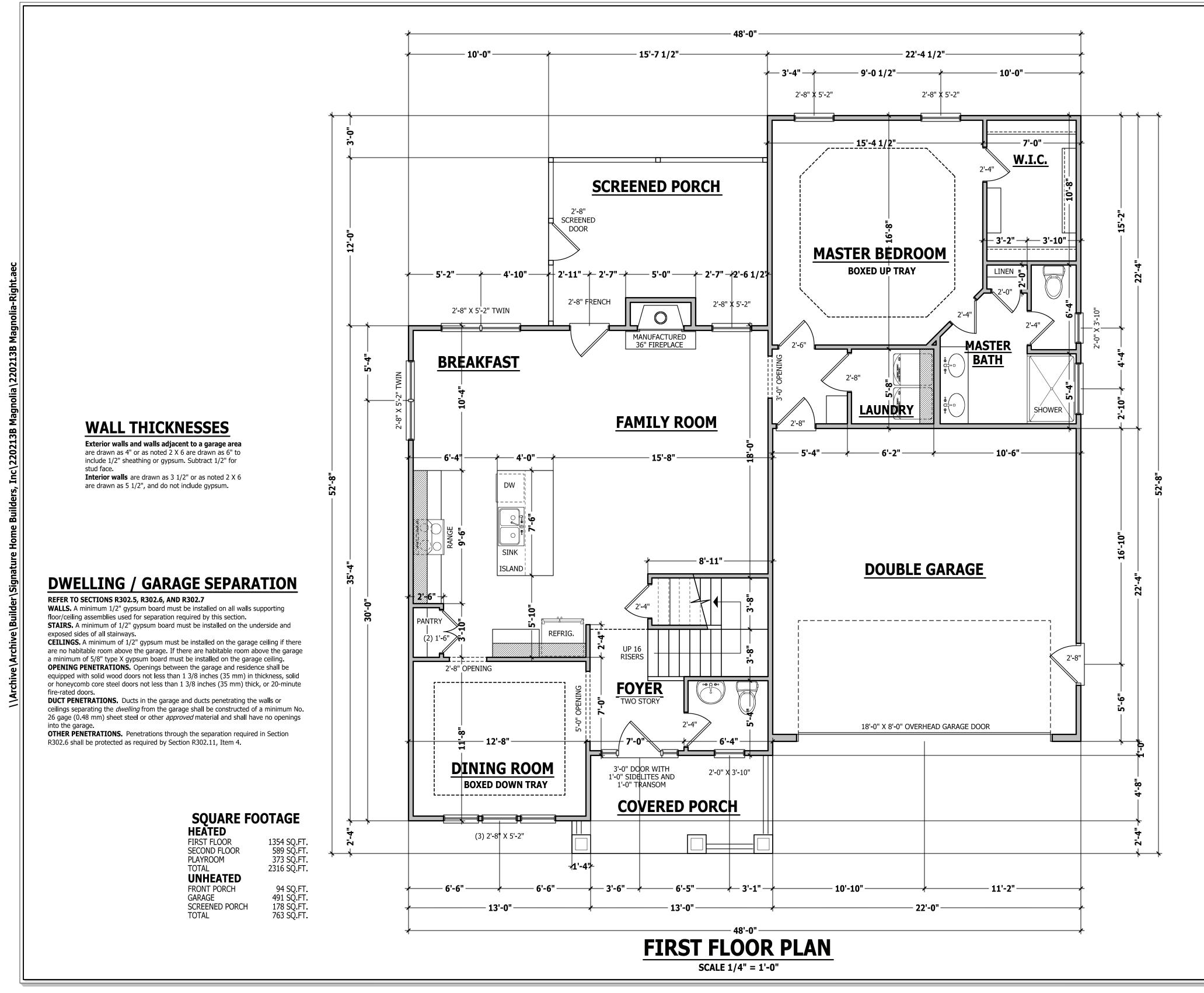
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> PLAN FLOOR

MAGNOLIA **FIRST**

 SQUARE FOOTAGE

 HEATED
 1354 SQ.FT.

 FIRST FLOOR
 589 SQ.FT.

 SECOND FLOOR
 589 SQ.FT.

 PLAYROOM
 373 SQ.FT.

 TOTAL
 2316 SQ.FT.

 UNHEATED
 PRONT PORCH
 94 SQ.FT.

FRONT PORCH 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 7/16" thick. **CONCRETE AND SOILS:** See foundation notes.

BRACE WALL PANEL NOTES

EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless 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.

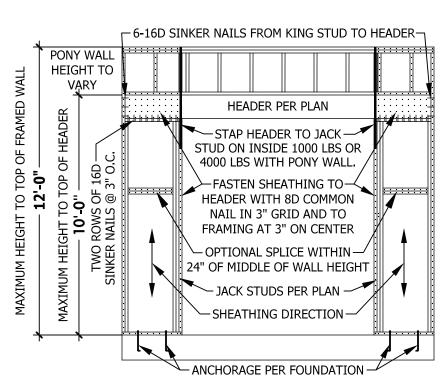
Methods Per Table R602.10.1

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 pails or #6 screws

minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

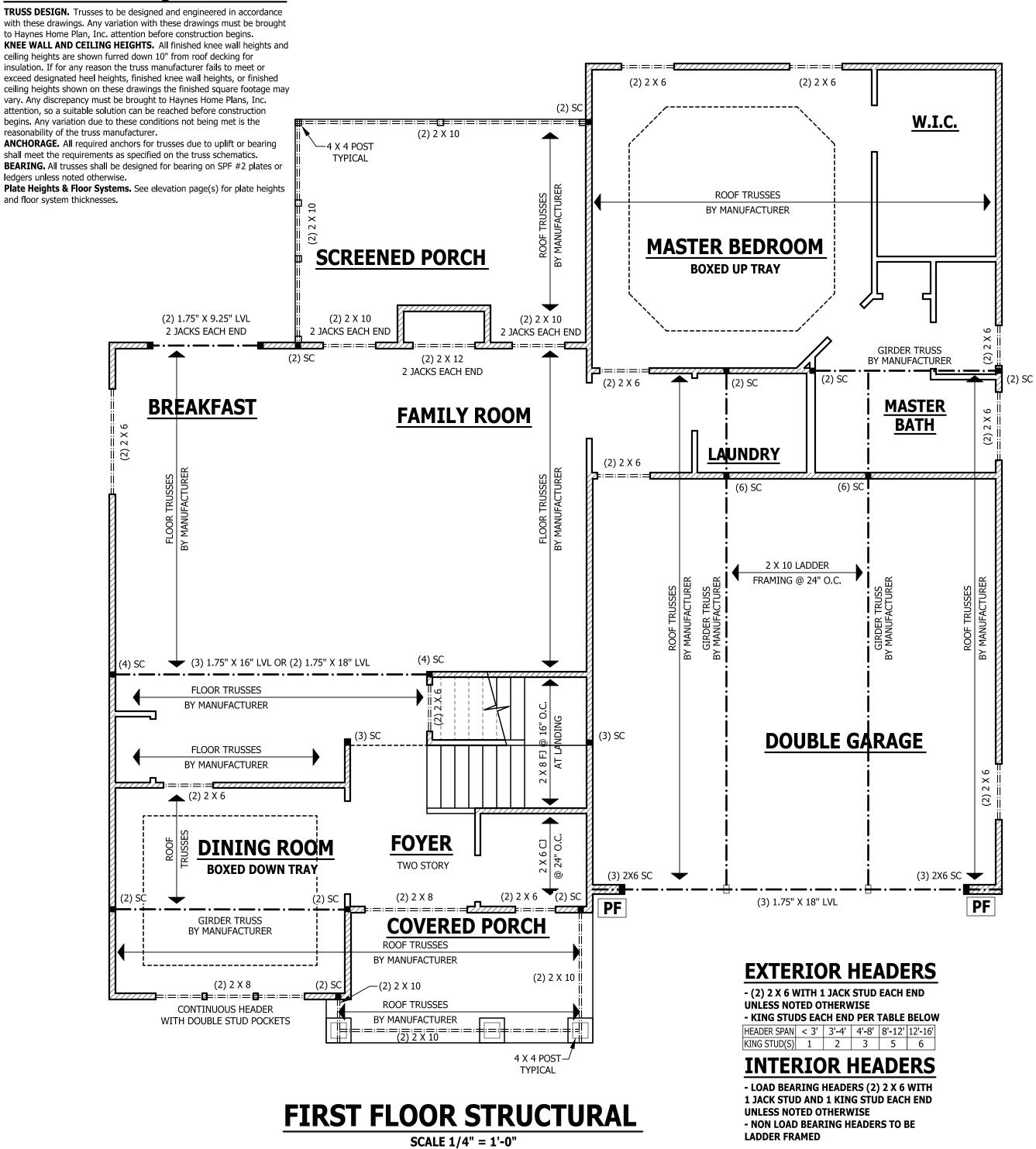


PF PORTAL FRAME AT OPENING (METHOD BE PER EIGHBE AND SECTION R602 10.1.)

(METHOD PF PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"

ROOF TRUSS REQUIREMENTS



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STRUCTURAL

FIRST FLOOR STRUC

SIGNATIVEE INC.

HOWE PLANS, INC

 SQUARE FOOTAGE

 HEATED
 1354 SQ.FT.

 FIRST FLOOR
 589 SQ.FT.

 SECOND FLOOR
 589 SQ.FT.

 PLAYROOM
 373 SQ.FT.

 TOTAL
 2316 SQ.FT.

 UNHEATED

UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL

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Guardrails and handrails	200		
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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:

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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.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for

Interior walls are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

ATTIC ACCESS

SECTION R807

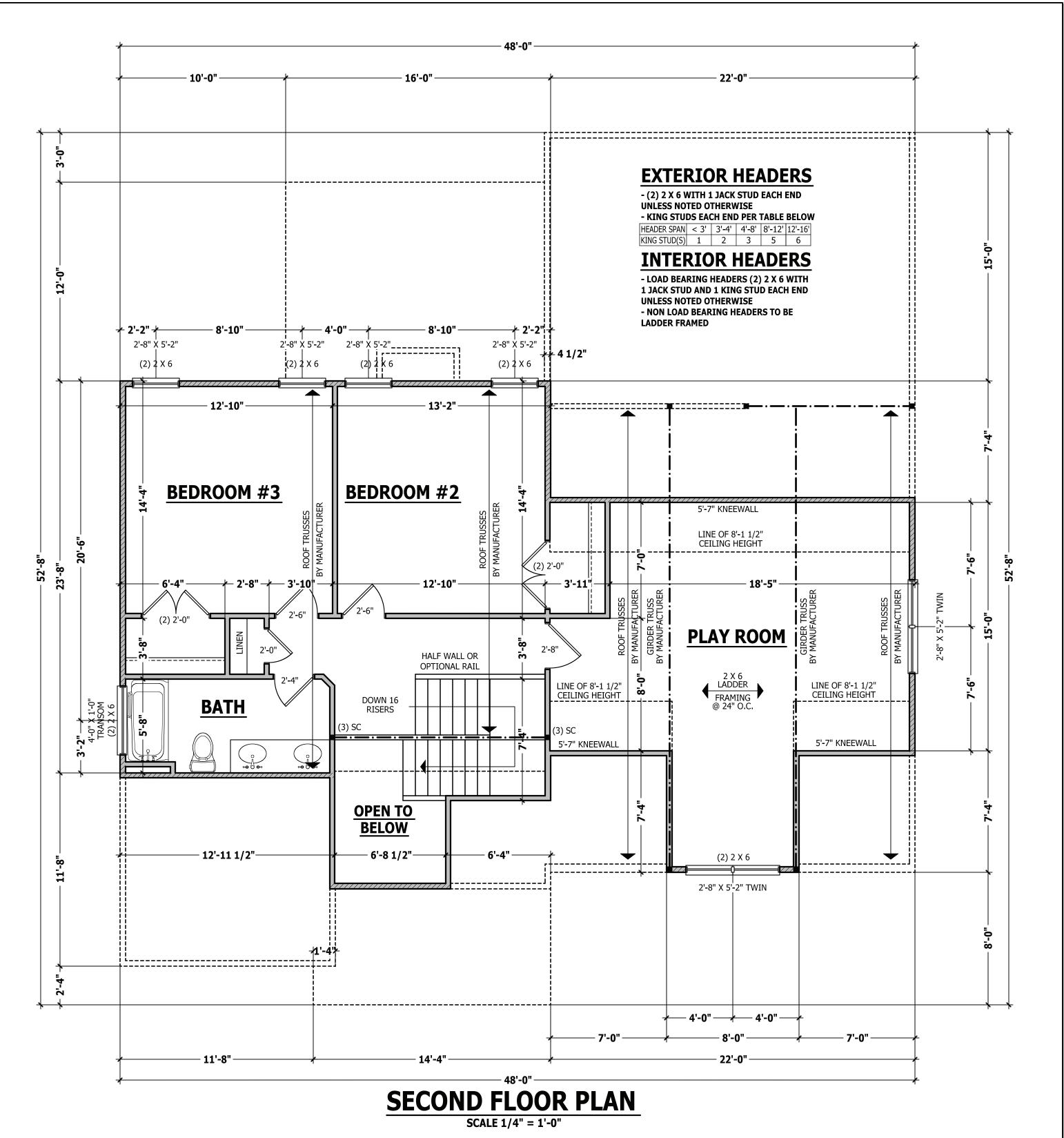
R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or 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.



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NSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

PLAN FLOOR

COND

Ш

MAGNOLIA

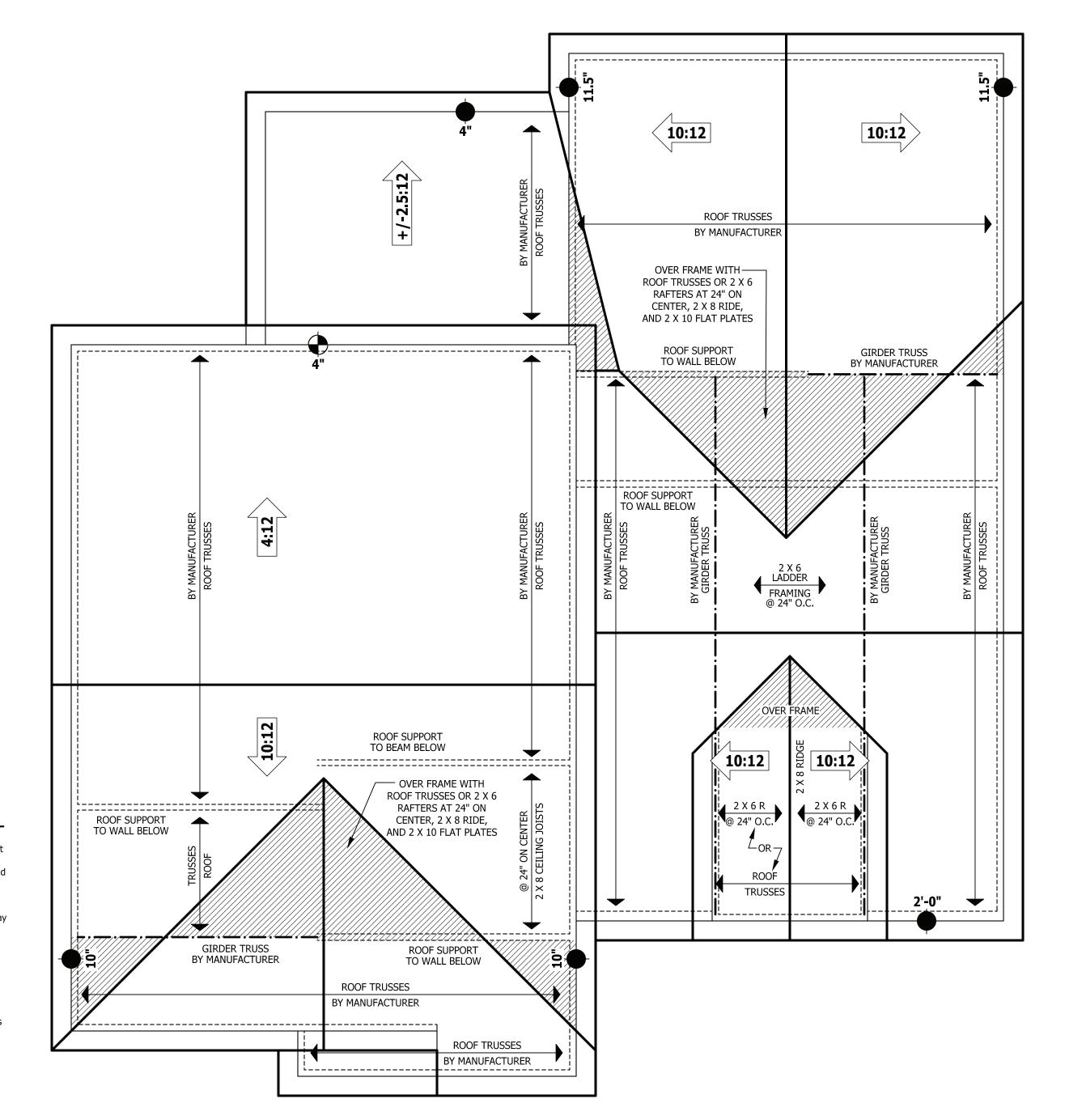
SQUARE FOOTAGE HEATED FIRST FLOOR SECOND FLOOR PLAYROOM TOTAL UNHEATED

GARAGE SCREENED PORCH TOTAL

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PAGE 6 OF 8



ROOF TRUSS REQUIREMENTS

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

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"

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ROOF PLAN

MAGNOLIA

SIGNATIVEE INC.

HOMB PLA

 SQUARE FOOTAGE

 HEATED
 1354 SQ.FT.

 FIRST FLOOR
 1354 SQ.FT.

 SECOND FLOOR
 589 SQ.FT.

 PLAYROOM
 373 SQ.FT.

 TOTAL
 2316 SQ.FT.

 UNHEATED
 FRONT PORCH
 94 SQ.FT.

 GARAGE
 491 SQ.FT.

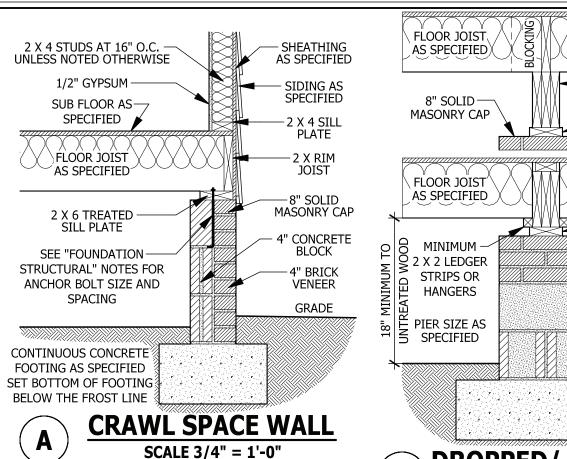
 SCREENED PORCH
 178 SQ.FT.

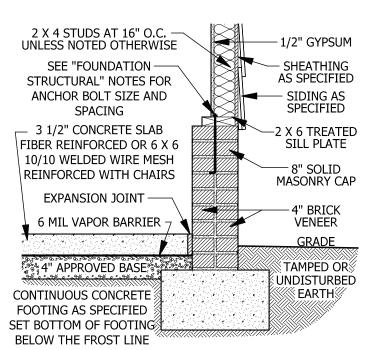
 TOTAL
 763 SQ.FT.

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DECK STAIR NOTES

GARAGE STEM WALL

SCALE 3/4" = 1'-0"

SECTION AM110

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 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.

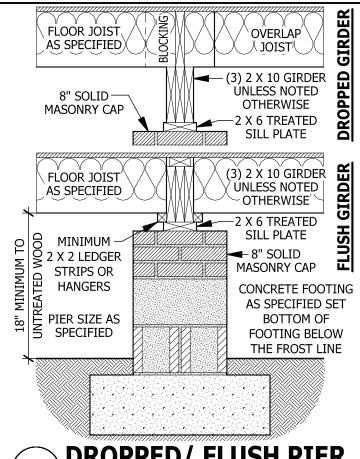
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall 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 diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

	POST SIZE	MÁX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER				
Γ	4 X 4	48 SF	4'-0"	2'-6"	1'-0"				
	6 X 6	120 SF	6'-0"	3'-6"	1'-8"				
ANACO 4 A 2 · C discount continut according to a size									

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, see Chapter 45.



2 X 4 STUDS AT 16" O.C.

UNLESS NOTED OTHERWISE

SUB FLOOR AS—

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

BELOW THE FROST LINE

2 X TREATED— HOUSE BAND

SUB FLOOR AS -

SPECIFIED

FLOOR JOIST AS SPECIFIED

8" CONCRETE BLOCK

TAMPED OR

SCALE 3/4" = 1'-0"

-2 X 4 SOLE PLATE

FLASHING MINIMUM 16" WIDE

3 1/2" CONCRETE SLAB

(2) 4" CORRUGATED PIPES

CONTINUOUS CONCRETE

SET BOTTOM OF FOOTING

FILLED PORCH SECTION WITH VENT

WITH (2) 1/2" HOT-DIPPED

5/4 X 6 OR 2 X 4 TREATED ¬

GAP BETWEEN DECKING

FOUNDATION PLAN

ATTACH JOIST WITH HANGERS -

5/8" HOT-DIPPED GALVANIZED

BOLTS AT 1'-8" O.C. MINIMUM 2

1/2" FROM EDGE WITH (3) 12d

COMMON HOT-DIPPED

GALVANIZED NAILS AT 6" O.O

SET BOTTOM OF

FOOTING BELOW:

SMOKE ALARMS

equipment provisions of NFPA 72.

requirements of Section R314.4.

NFPA 72.

locations:

the bedrooms.

DECK ATTACHMENT

SCALE 1/2" = 1'-0"

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

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

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

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

R314.3 Location. Smoke alarms shall be installed in the following

2. Outside each separate sleeping area in the immediate vicinity of

Exception: Where smoke alarms are provided meeting the

using a combination of smoke detector and audible notification

the provisions of this code and the household fire warning

OR TREATED 2 X 2 LEDGER

-FLASHING

GALVANIZED BOLTS

COBBLED BRICK

FOR SLAB SUPPORT

Matreated Girder

TREATED POST

AS SPECIFIED

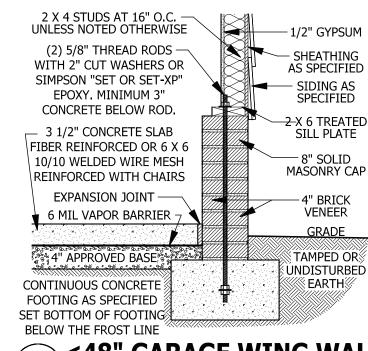
GRADE

ROWLOCK

- 8 X 16 VEN

GRADE

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



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

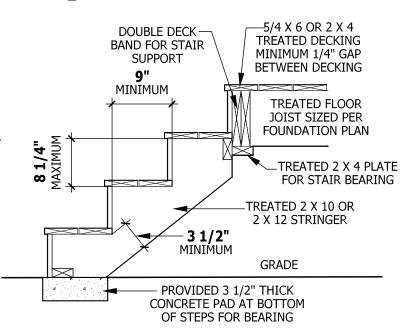


FIGURE AM110 **TYPICAL DECK STAIR DETAIL**

SCALE 3/4" = 1'-0"

LATH-

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

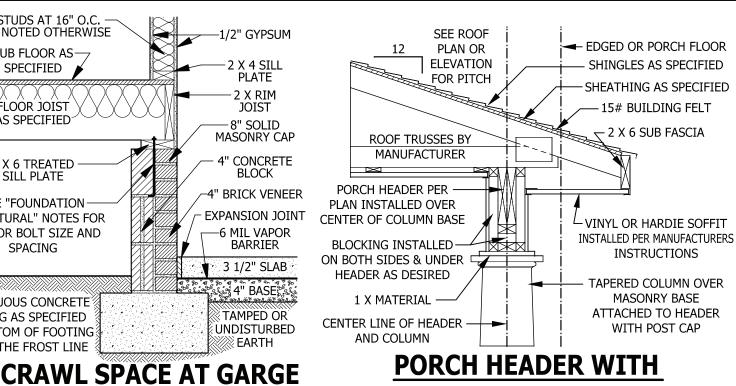
shall be of a type that will allow trapped water to drain to the exterior of the

shall cover and terminate on the

attachment flange of the weep screed.

1. In each sleeping room. 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 in such a manner that the actuation of one alarm will activate all of



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 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 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.

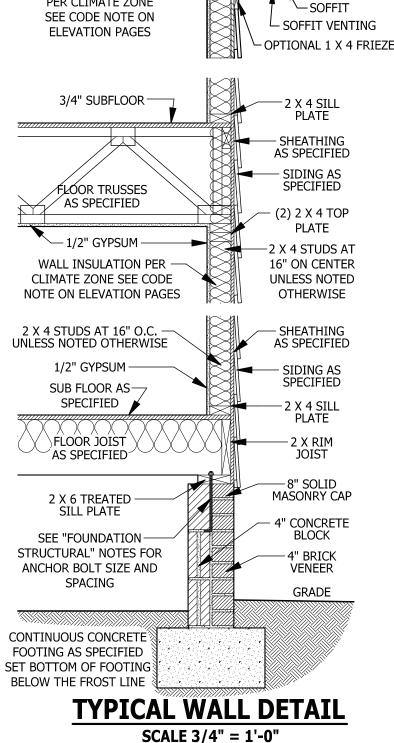
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

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 an individual *dwelling* unit the alarm devices shall be interconnected 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

OR ELEVATIONS

ROOF INSULATION

(2) 2 X 4 TOP PLATE

- 1/2" GYPSUM

WALL INSULATION

PER CLIMATE ZONE

PER CLIMATE ZONE

SEE CODE NOTE ON

ELEVATION PAGES

- SHINGLES AS SPECIFIED

-15# BUILDING FELT

-SHEATHING AS SPECIFIED

INSULATION BAFFLE

1 X 8 FASCIA

TYPICAL STAIR DETAIL

CONTINUOUS HANDRAIL

34 TO 38 INCHES

ABOVE TREAD NOSING

MAXIMUM 6" GAP

BETWEEN WALL

MOUNTED AND

OPEN RAIL

SQUARE FOOTAGE HEATED FIRST FLOOR SECOND FLOOR PLAYROOM TOTAL UNHEATED FRONT PORCH GARAGE SCREENED PORCH TOTAL

PURCHASER MUST VERIFY ALL

EFORE CONSTRUCTION BEGINS

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DET

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ARY WITH LOCATION. A LOCAL

IGINEER SHOULD BE CONSULTED

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PAGE 8 OF 8

SHEATHING + STONE VEENER AS SPECIFIED AS SPECIFIED Building code. VAPOR BARRIER

-WEEP SCREED

MINIMUM 4" TO

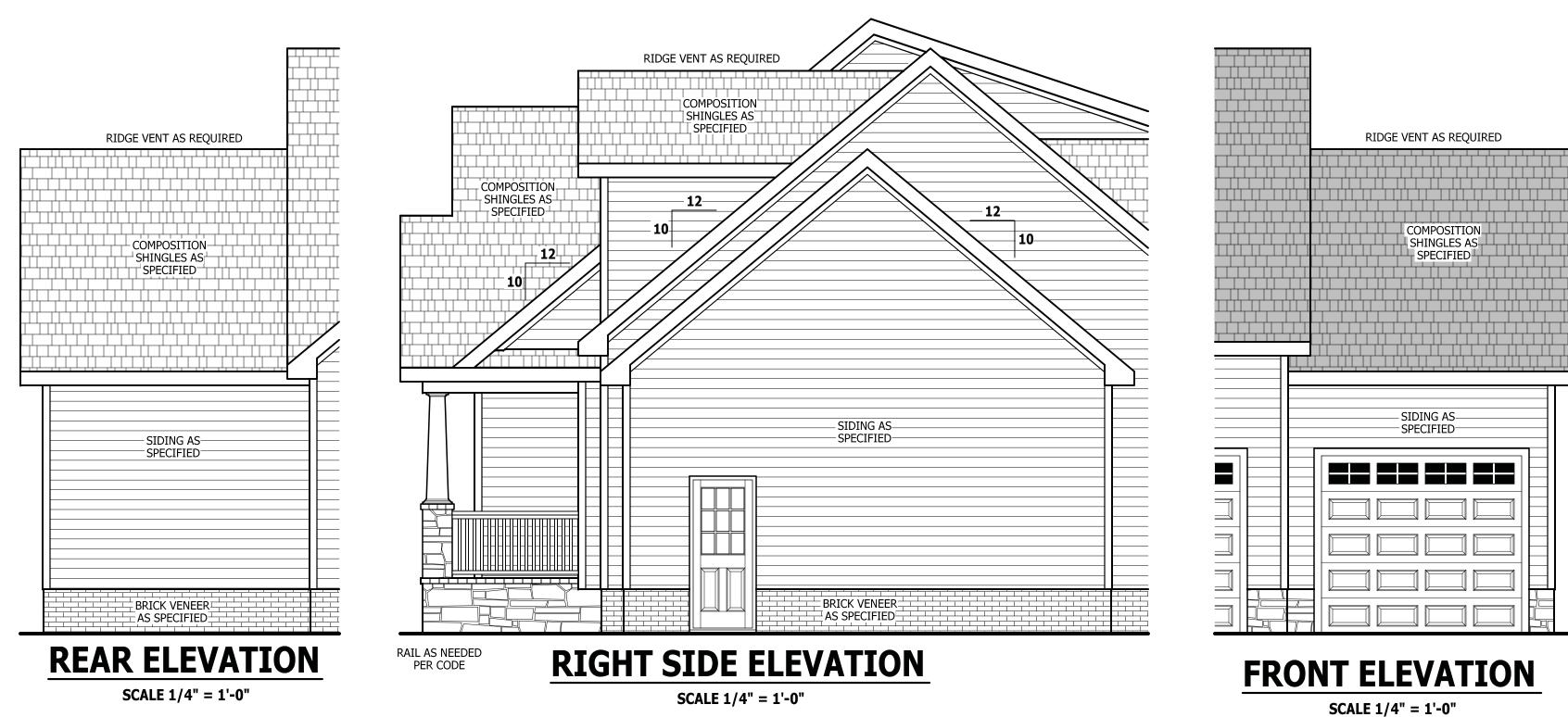
GROUND OR 2"

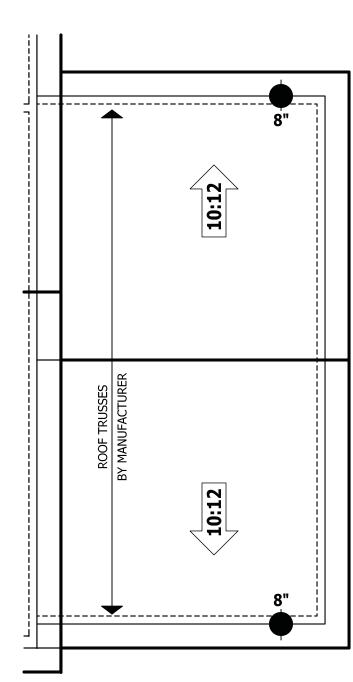
-TO PAVEMENT

GRADE

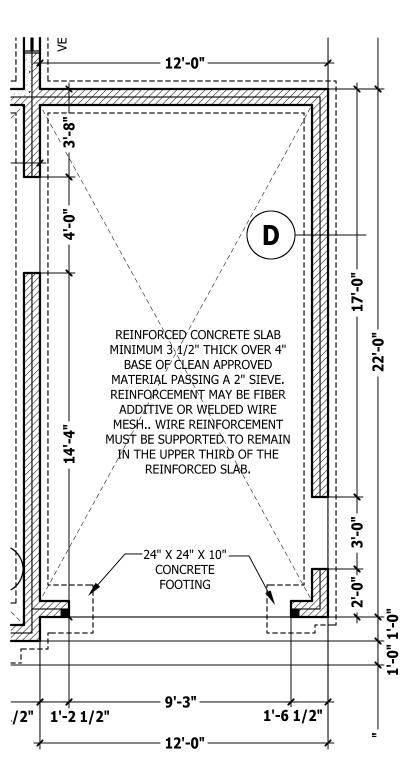
R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C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

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 lap the attachment flange. The exterior lath 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.

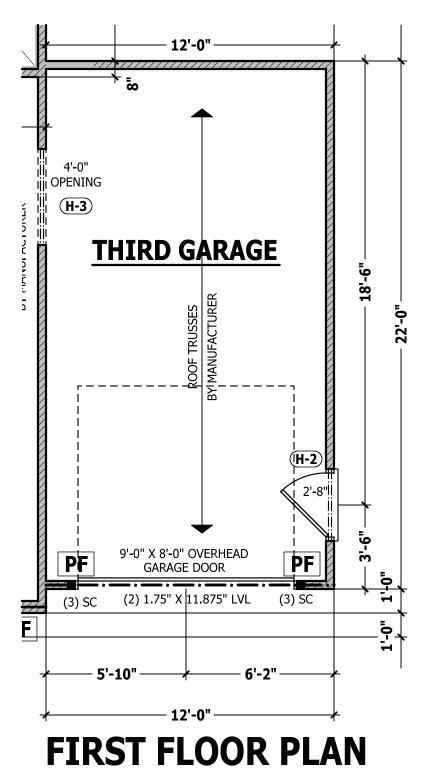




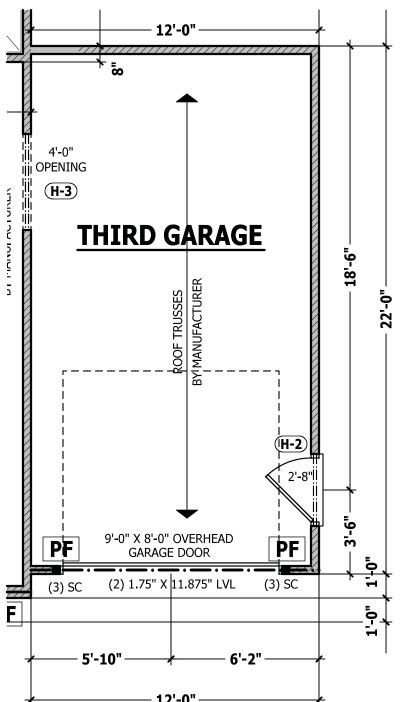




FOUNDATION PLAN SCALE 1/4" = 1'-0"



SCALE 1/4" = 1'-0"



PURCHASER MUST VERIFY ALL SEFORE CONSTRUCTION BEGINS

ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND

CODES AND CONDITIONS MAY DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTED

BEFORE CONSTRUCTION. THESE DRAWING ARF

NSTRUMENTS OF SERVICE AND

AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

ADDENDUM

GARAGE A

THIRD

MAGNOLIA

 SQUARE FOOTAGE

 HEATED
 1354 SQ.FT.

 FIRST FLOOR
 589 SQ.FT.

 SECOND FLOOR
 589 SQ.FT.

 TOTAL
 2316 SQ.FT.

 UNHEATED
 FRONT PORCH

 GARAGE
 491 SQ.FT.

 SCREENED PORCH
 178 SQ.FT.

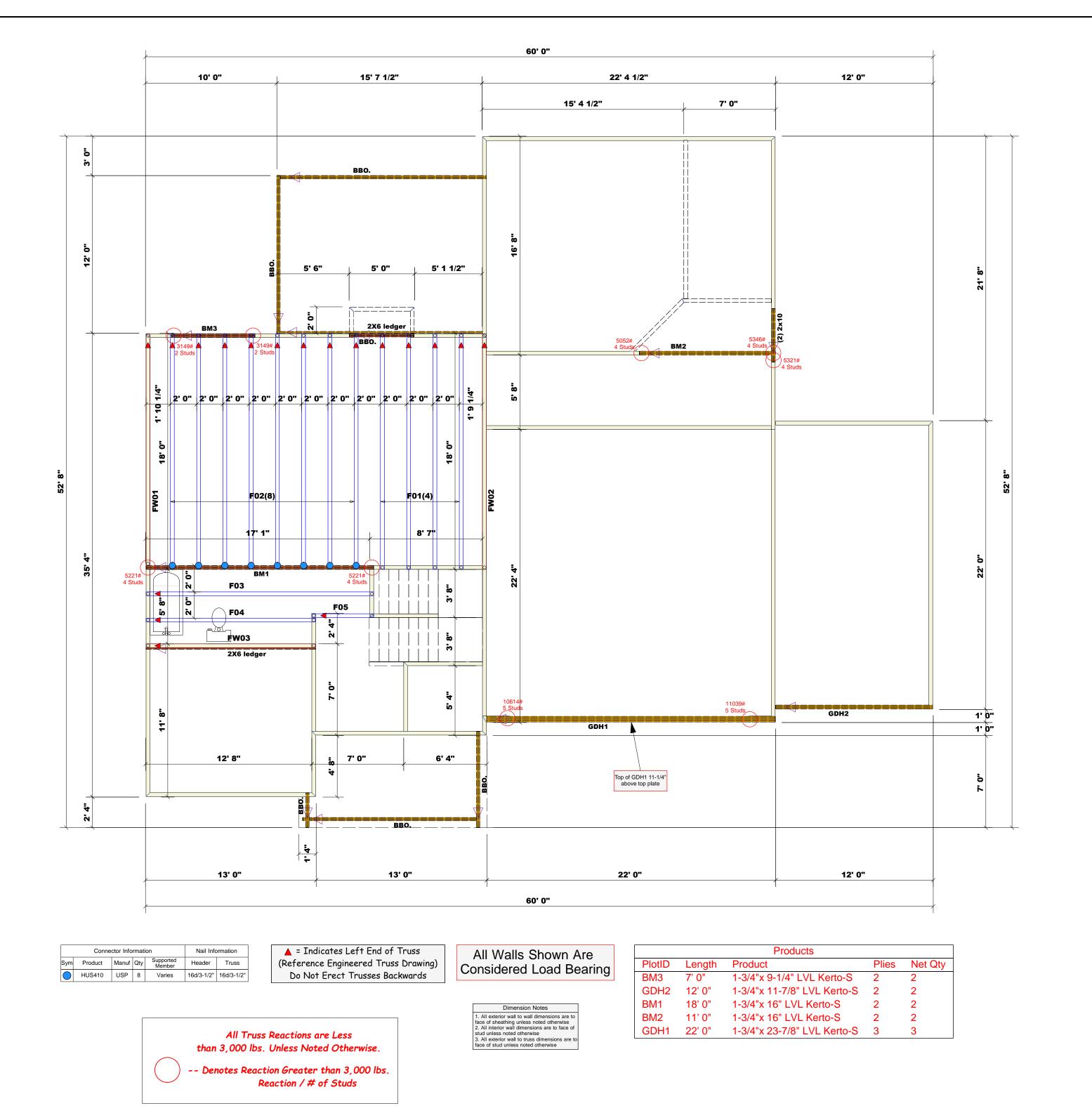
 THIRD GARAGE
 264 SQ.FT.

 TOTAL
 1027 SQ.FT.

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9/6/2018 180503B

ADDENDUM



ROOF & FLOOR TRUSSES & BEAMS

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

Bearing reactions less than or equal to 3000# are 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

Signature_

Hampton Horrocks

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))

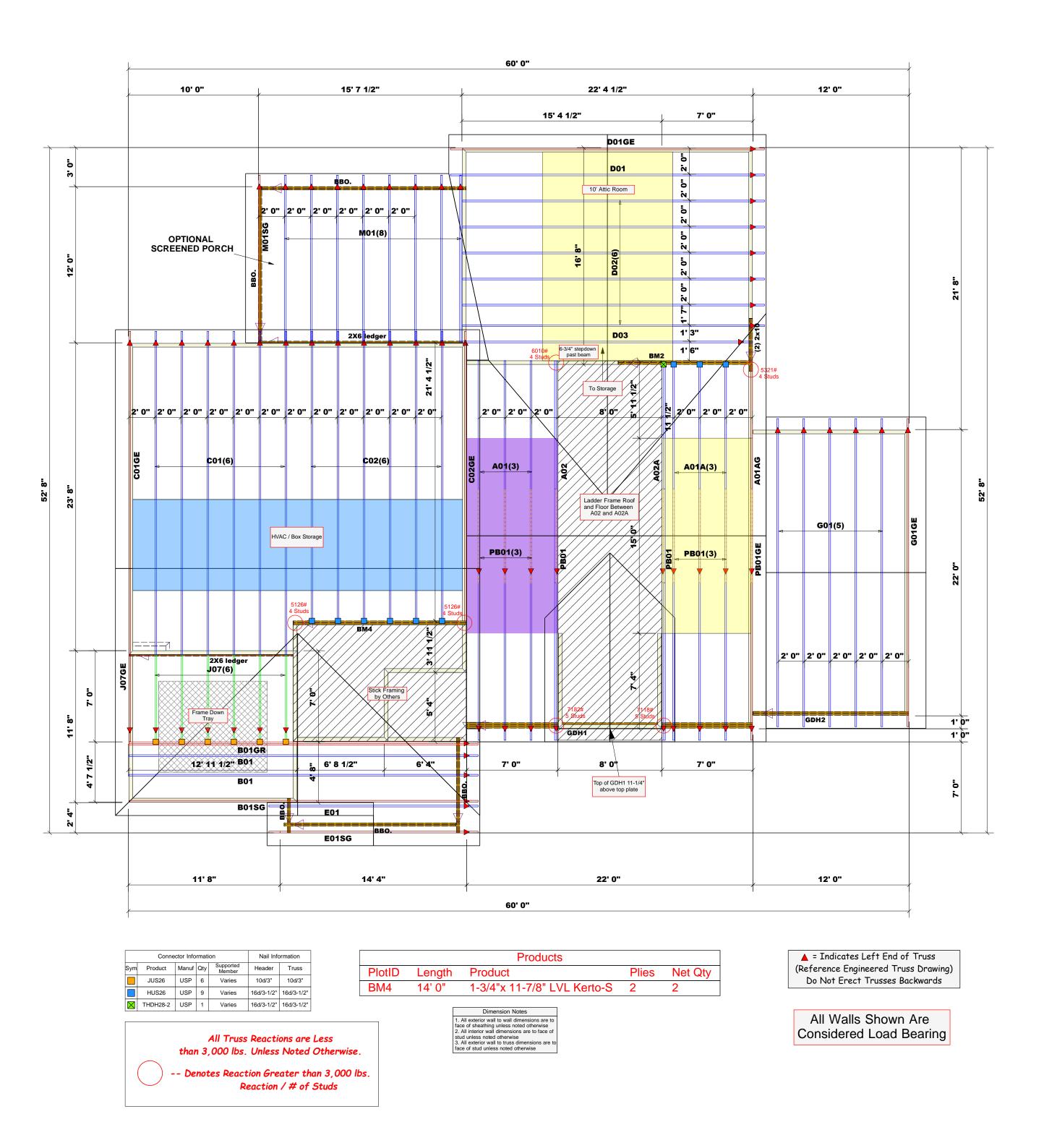
		1	HEADER/	GIRDER	₹.		
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	,
1700	1		2550	1		3400	0
3400	2		5100	2		6800)
5100	3		7650	3		1020	0
6800	4		10200	4		1360	0
8500	5		12750	5		1700	0
10200	6		15300	6			
11900	7						
13600	8						
15300	9						
	,						

rs	COUNTY	Harnett
ld.	ADDRESS	245 Mamie Upchurch Rd., Lillington NC
	MODEL	Floor
	DATE REV . 08/30/23	08/30/23
	DRAWN BY	DRAWN BY Hampton Horrocks
	SALESMAN	SALESMAN Anthony Williams

BUILDER Signature JOB NAME 245 Mamie PLAN Magnolia 3 SEAL DATE 02/25/22 QUOTE # Quote #	Signature Home Builders 245 Mamie Upchurch Rd. Magnolia 3 Car, GR 02/25/22 Quote #
10823-4774	4774

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



COMTECH **ROOF & FLOOR TRUSSES & BEAMS**

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

Bearing reactions less than or equal to 3000# are 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 port 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#.

Hampton Horrocks

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

	(0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11 1/10000	J 1100L	.0(1) 0 (1	-,,	
NUI	MBER C		STUDS R			A END OF	=
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D 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						
	,	,					

Signature Home Builders	COUNTY	Harnett
245 Mamie Upchurch Rd	ADDRESS	245 Mamie Upchurch Rd., Lillington NC
Magnolia 3 Car, GR	MODEL	Roof
02/25/22	DATE REV.	08/30/23
Quote #	DRAWN BY	DRAWN BY Hampton Horrocks
J0823-4773	SALESMAN	SALESMAN Anthony Williams

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 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

PLAN

JOB NAME

BUILDER

SEAL DATE

J0823-4773

QUOTE#



Client: Signature Home Builders

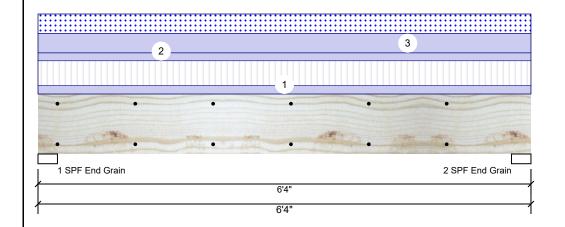
Project: Address: Date: 8/30/2023

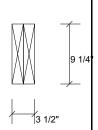
Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd

Project #: J0823-4774

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED BM₃

Level: 1ST. FLOOR





Page 1 of 13

Member Information

Plies: 2	
Moisture Condition: Dry	
Deflection LL: 480	
Deflection TL: 240	
Importance: Normal -	·
Temperature: Temp <=	100°F

Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

E	3rg	Direction	Live	Dead	Snow	Wind	Const
	1	Vertical	1131	1641	880	0	0
	2	Vertical	1131	1641	880	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3884 ft-lb	3'2"	12542 ft-lb	0.310 (31%)	D+L	L
Unbraced	4413 ft-lb	3'2"	10614 ft-lb	0.416 (42%)	D+0.75(L+S)	L
Shear	1884 lb	5'3 3/4"	6907 lb	0.273 (27%)	D+L	L
LL Defl inch	0.037 (L/1944)	3'2"	0.149 (L/480)	0.247 (25%)	0.75(L+S)	L
TL Defl inch	0.077 (L/931)	3'2"	0.298 (L/240)	0.258 (26%)	D+0.75(L+S)	L

Bearings

End Grain

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	36%	1641 / 1508	3149	L	D+0.75(L+S)
2 - SPF	3.000"	Vert	36%	1641 / 1508	3149	L	D+0.75(L+S)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 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	119 PLF	357 PLF	0 PLF	0 PLF	0 PLF	F02
2	Uniform			Тор	114 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall
3	Uniform			Тор	278 PLF	0 PLF	278 PLF	0 PLF	0 PLF	C01
	Self Weight				7 PLF					

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

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 2 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





Client: Signature Home Builders

Project: Address:

8/30/2023

Date:

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 2 of 13

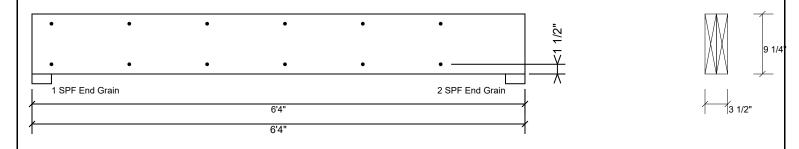
Project #: J0823-4774

Kerto-S LVL BM₃

1.750" X 9.250"

2-Ply - PASSED

Level: 1ST. FLOOR



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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 cut 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
- 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

Manufacturer Info

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



This design is valid until 11/3/2024



Client: Signature Home Builders

Project: Address: Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 3 of 13

Project #: J0823-4774

1.750" X 16.000" 2-Ply - PASSED Kerto-S LVL BM₁

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

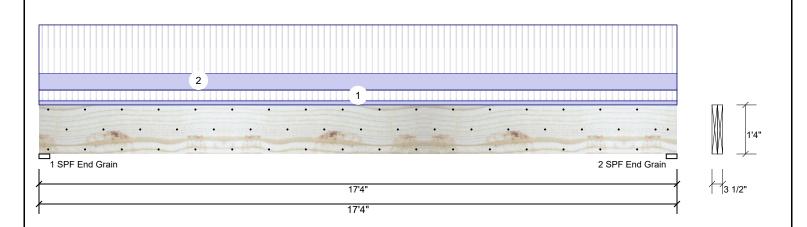
ASD

No

IBC 2012

Not Checked

Level: 1ST. FLOOR



Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance:

Normal - II Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3813	1408	0	0	0
2	Vertical	3813	1408	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	21497 ft-lb	8'8"	34565 ft-lb	0.622 (62%)	D+L	L
Unbraced	21497 ft-lb	8'8"	21533 ft-lb	0.998 (100%)	D+L	L
Shear	4899 lb	1'7 1/2"	11947 lb	0.410 (41%)	D+L	L
LL Defl inch	0.370 (L/548)	8'8 1/16"	0.422 (L/480)	0.876 (88%)	L	L
TL Defl inch	0.507 (L/400)	8'8 1/16"	0.563 (L/360)	0.899 (90%)	D+L	L

Design Notes

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

Bra	Direction	Live	Dead	

1	Vertical	3813	1408	0	0	0
2	Vertical	3813	1408	0	0	0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 1408 / 3813 5221 L End Grain 2 - SPF 3.500" 1408 / 3813 D+L Vert 51% 5221 L End Grain

o Lateral dionac	mood rade based on single	pry wiatri.									
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	30 PLF	80 PLF	0 PLF	0 PLF	0 PLF	Floor	
2	Uniform			Near Face	120 PLF	360 PLF	0 PLF	0 PLF	0 PLF	F02	
	Self Weight				12 PLF						

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

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





Client: Signature Home Builders

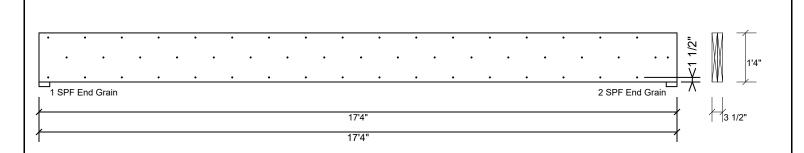
Project: Address: Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 4 of 13

Project #: J0823-4774

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM₁

Level: 1ST. FLOOR



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	
Capacity	97.7 %	
Load	240.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

Notes

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 cut 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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info







Client: Signature Home Builders

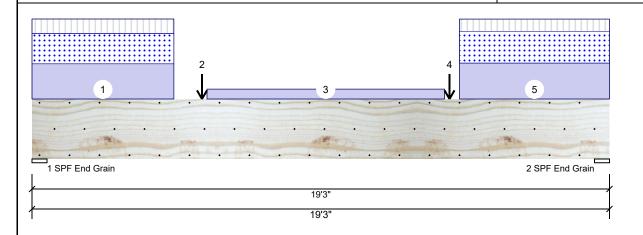
Project: Address: Date: 8/30/2023

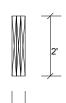
Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd

Project #: J0823-4774

Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED GDH1

Level: 1ST. FLOOR





Page 5 of 13

Member Information

Type: Plies: 3 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance:

Normal - II Temperature: Temp <= 100°F

Application: Floor Design Method: ASD **Building Code:** IBC 2012 Load Sharing: Yes

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1475	5906	4708	0	0
2	Vertical	1419	6117	4922	0	0

Analysis Re	Analysis Results										
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case					
Moment	44505 ft-lb	9'2 1/2"	131295 ft-lb	0.339 (34%)	D+S	L					
Unbraced	44505 ft-lb	9'2 1/2"	44534 ft-lb	0.999 (100%)	D+S	L					
Shear	9105 lb	16'9"	30912 lb	0.295 (29%)	D+S	L					
LL Defl inch	0.123 (L/1793)	9'7 9/16"	0.460 (L/480)	0.268 (27%)	S	L					

Allalysis	Actual	Lucation	Allowed	Capacity	COITID.	Case
Moment	44505 ft-lb	9'2 1/2"	131295 ft-lb	0.339 (34%)	D+S	L
Unbraced	44505 ft-lb	9'2 1/2"	44534 ft-lb	0.999 (100%)	D+S	L
Shear	9105 lb	16'9"	30912 lb	0.295 (29%)	D+S	L
LL Defl inch	0.123 (L/1793)	9'7 9/16"	0.460 (L/480)	0.268 (27%)	S	L
TL Defl inch	0.282 (L/782)	9'7 9/16"	0.613 (L/360)	0.460 (46%)	D+S	L

Bearings

Grain

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 6.000" 5906 / 4708 D+S Vert 10614 L End Grain 2 - SPF 6.000" 6117 / 4922 11039 L D+S Vert End

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 6' 7/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

_		5 1 7									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Part. Uniform	0-0-0 to 4-8-12		Тор	399 PLF	164 PLF	344 PLF	0 PLF	0 PLF	A01	
2	Point	5-8-0		Тор	3352 lb	719 lb	3112 lb	0 lb	0 lb	A02	
	Bearing Length	0-3-8									
3	Part. Uniform	5-10-0 to 13-9-0		Тор	112 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	

Continued on page 2...

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
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





Client: Signature Home Builders

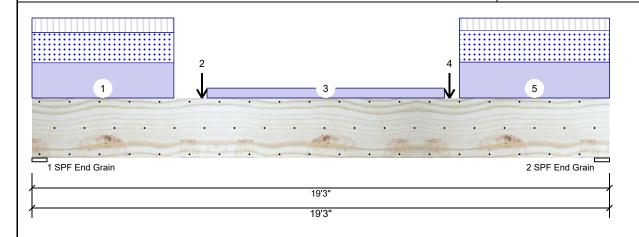
Project: Address: Date: 8/30/2023

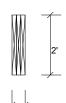
Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd

Project #: J0823-4774

1.750" X 24.000" 3-Ply - PASSED **Kerto-S LVL** GDH₁

Level: 1ST. FLOOR





Page 6 of 13

Continued	from	page	1
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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
4	Point	13-11-0		Тор	3323 lb	710 lb	3086 lb	0 lb	0 lb	A02A
	Bearing Length	0-3-8								
5	Part. Uniform	14-3-0 to 19-3-0		Тор	407 PLF	138 PLF	361 PLF	0 PLF	0 PLF	A01A
	Self Weight				28 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. IVI beams must not be cut 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

Manufacturer Info

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



This design is valid until 11/3/2024

Client:

Project: Address: Signature Home Builders

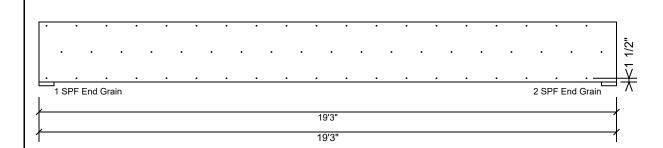
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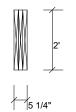
Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd

Project #: J0823-4774

1.750" X 24.000" **Kerto-S LVL** 3-Ply - PASSED GDH₁

Level: 1ST. FLOOR





Page 7 of 13

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

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

- Informing & Installation

 I. VIL beams must not be cut or drilled

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

 Damaged Beams must not be used

 Design assumes top edge is laterally restrained

 Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info







Client: Signature Home Builders

Project: Address:

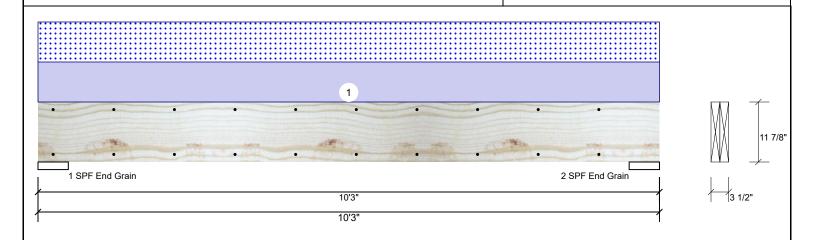
Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 8 of 13

Project #: J0823-4774

1.750" X 11.875" **Kerto-S LVL** 2-Ply - PASSED GDH2

Level: 1ST. FLOOR



Member Info	ember Information F					Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	Vertical	0	1226	1179	0	0		
Moisture Conditi	on: Dry	Building Code:	IBC 2012	2	Vertical	0	1226	1179	0	0		
Deflection LL:	360	Load Sharing:	No									
Deflection TL:	240	Deck:	Not Checked									
Importance:	Normal - II											
Temperature:	Temp <= 100°F											

Bearings Bearing Length

Dir.

Analysis Results

Design Notes

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5155 ft-lb	5'1 1/2"	22897 ft-lb	0.225 (23%)	D+S	L
Unbraced	5155 ft-lb	5'1 1/2"	9857 ft-lb	0.523 (52%)	D+S	L
Shear	1715 lb	1'5 7/8"	10197 lb	0.168 (17%)	D+S	L
LL Defl inch	0.048 (L/2347)	5'1 1/2"	0.312 (L/360)	0.153 (15%)	S	L
TL Defl inch	0.098 (L/1151)	5'1 1/2"	0.469 (L/240)	0.209 (21%)	D+S	L

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

1 - SPF End Grain	6.000"	Vert	14%	1226 / 1179	2405 l	L	D+S
2 - SPF End Grain	6.000"	Vert	14%	1226 / 1179	2405 l	L	D+S

Cap. React D/L lb

Total Ld. Case

Ld. Comb.

ID Location Trib Width Load Type Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 1 Uniform 230 PLF 0 PLF 230 PLF 0 PLF 0 PLF G01 Top

Self Weight 9 PLF

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
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 2 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





Client: Signature Home Builders

Project: Address:

8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 9 of 13

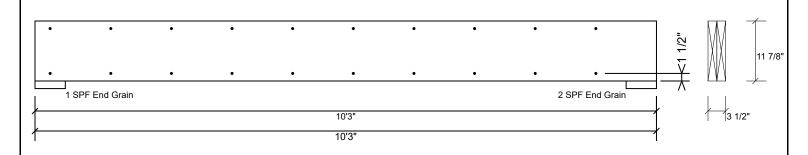
Project #: J0823-4774

1.750" X 11.875" **Kerto-S LVL** GDH₂

2-Ply - PASSED

Date:

Level: 1ST. FLOOR



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6".

, ,		`	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

Notes

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 cut 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
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

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



CSD DESIGN



Client:

Project: Address: Signature Home Builders

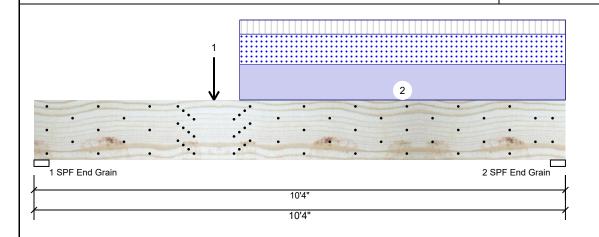
Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd

Project #: J0823-4774

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM₂

Level: 1ST. FLOOR

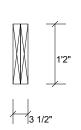


ASD

No

IBC 2012

Not Checked



Page 10 of 13

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II

Temp <= 100°F Temperature:

LINIDATTEDNIED IL (LIMI: f4) R

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	880	2659	2309	0	0
2	Vertical	1016	2789	2394	0	0

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	16457 ft-lb	3'6"	31049 ft-lb	0.530 (53%)	D+0.75(L+S)	L
Unbraced	16457 ft-lb	3'6"	16525 ft-lb	0.996 (100%)	D+0.75(L+S)	L
Shear	5984 lb	1'5 1/2"	12021 lb	0.498 (50%)	D+0.75(L+S)	L
LL Defl inch	0.099 (L/1197)	4'10 13/16"	0.247 (L/480)	0.401 (40%)	0.75(L+S)	L
TL Defl inch	0.208 (L/570)	4'10 3/4"	0.329 (L/360)	0.631 (63%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 5 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be laterally braced at a maximum of 6'1 5/8" o.c.
- 8 Lateral slenderness ratio based on single ply width.

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			-		

	Bearings										
ſ	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
	1 - SPF End Grain	3.500"	Vert	49%	2659 / 2392	5052	L	D+0.75(L+S)			
1	2 - SPF Fnd	3.500"	Vert	52%	2789 / 2557	5346	L	D+0.75(L+S)			

7 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	3-6-0		Near Face	2733 lb	851 lb	2449 lb	0 lb	0 lb	A02A
2	Part. Uniform	4-0-0 to 10-4-0		Near Face	411 PLF	165 PLF	356 PLF	0 PLF	0 PLF	A01A
	Self Weight				11 PLF					

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

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Grain

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





Client:

Project: Address: Signature Home Builders

Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 11 of 13

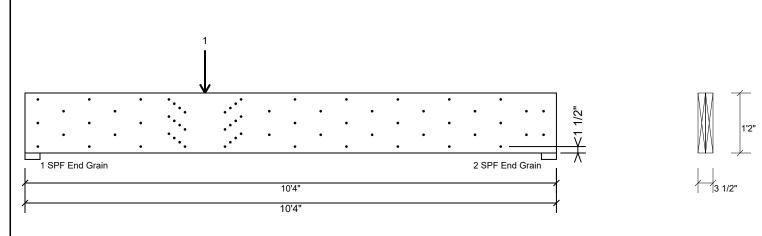
Project #: J0823-4774

Kerto-S LVL BM₂

1.750" X 14.000"

2-Ply - PASSED

Level: 1ST. FLOOR



Multi-Ply Analysis

Fasten all plies using 5 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

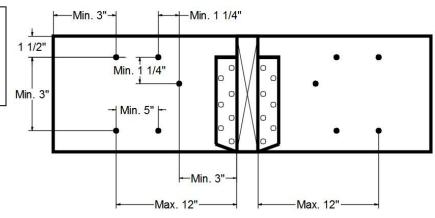
Capacity	85.2 %	
Load	400.9 PLF	
Yield Limit per Foot	470.6 PLF	
Yield Limit per Fastener	94.1 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+0.75(L+S)	
Duration Factor	1.15	

Concentrated Load

Fasten at concentrated side load at 3-6-0 with a minimum of (24) – 12d Common nails (.148x3.25") in the pattern shown.

the pattern shown.		
Capacity	88.8 %	
Load	2604.0lb.	
Total Yield Limit	2933.3 lb.	
Cg	0.9998	
Yield Limit per Fastener	122.3 lb.	
Yield Mode	IV	
Load Combination	D+0.75(L+S)	
Duration Factor	1.15	

Min/Max fastener distances for Concentrated Side Loads



Notes

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

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Signature Home Builders

Project: Address: Date: 8/30/2023 Input by:

Hampton Horrocks 245 Mamie Upchurch Rd Page 12 of 13

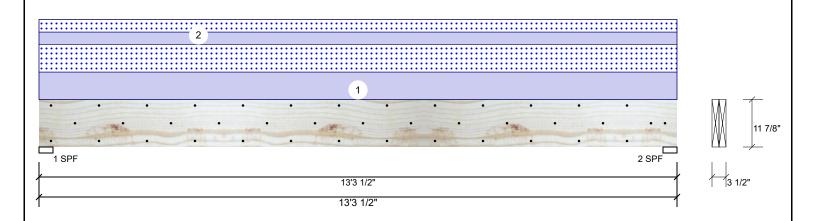
D+S

D+S

Project #: J0823-4774

1.750" X 11.875" 2-Ply - PASSED Kerto-S LVL BM4

evel: 2ND. FLOOR



Member Information Reactions UNPATTERNED Ib (Uplift) Wind Type: Application: Floor Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 0 2593 2532 0 Vertical 0 1 Moisture Condition: Dry **Building Code:** IBC 2012 2 Vertical 0 2593 2532 0 0 Deflection LL: 360 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb.

1 - SPF 3.500"

2 - SPF 3.500"

Vert

Vert

98%

2593 / 2532

2593 / 2532

5126 L

5126 L

Analysis Results

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15877 ft-lb	6'7 3/4"	22897 ft-lb	0.693 (69%)	D+S	L
Unbraced	15877 ft-lb	6'7 3/4"	15911 ft-lb	0.998 (100%)	D+S	L
Shear	4901 lb	12' 1/8"	10197 lb	0.481 (48%)	D+S	L
LL Defl inch	0.260 (L/593)	6'7 3/4"	0.428 (L/360)	0.607 (61%)	S	L
TL Defl inch	0.526 (L/293)	6'7 3/4"	0.642 (L/240)	0.820 (82%)	D+S	L

Design Notes

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

		0 1 7								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	261 PLF	0 PLF	261 PLF	0 PLF	0 PLF	C02
2	Tie-In	0-0-0 to 13-3-8	6-0-0	Near Face	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	ROOF FRAMING
	Self Weight				9 PLF					

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
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
 - Damaged Beams must not be used

Handling & Installation

- Design assumes top edge is laterally restrained
 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

Manufacturer Info

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



This design is valid until 11/3/2024



Client: Signature Home Builders

Project: Address: Date: 8/30/2023

Input by: Hampton Horrocks Job Name: 245 Mamie Upchurch Rd Page 13 of 13

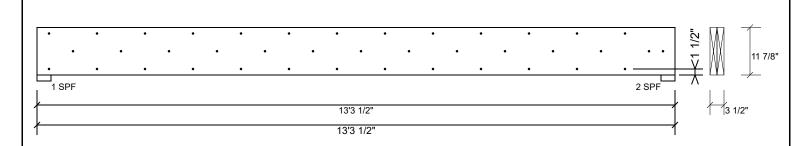
Project #: J0823-4774

Kerto-S LVL BM4

1.750" X 11.875"

2-Ply - PASSED

evel: 2ND. FLOOR



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

, ,		,	,
Capacity	92.4 %		
Load	261.0 PLF		
Yield Limit per Foot	282.4 PLF		
Yield Limit per Fastener	94.1 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination	D+S		
Duration Factor	1.15		

Notes

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 cut 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

For flat roofs provide proper drainage to prevent ponding

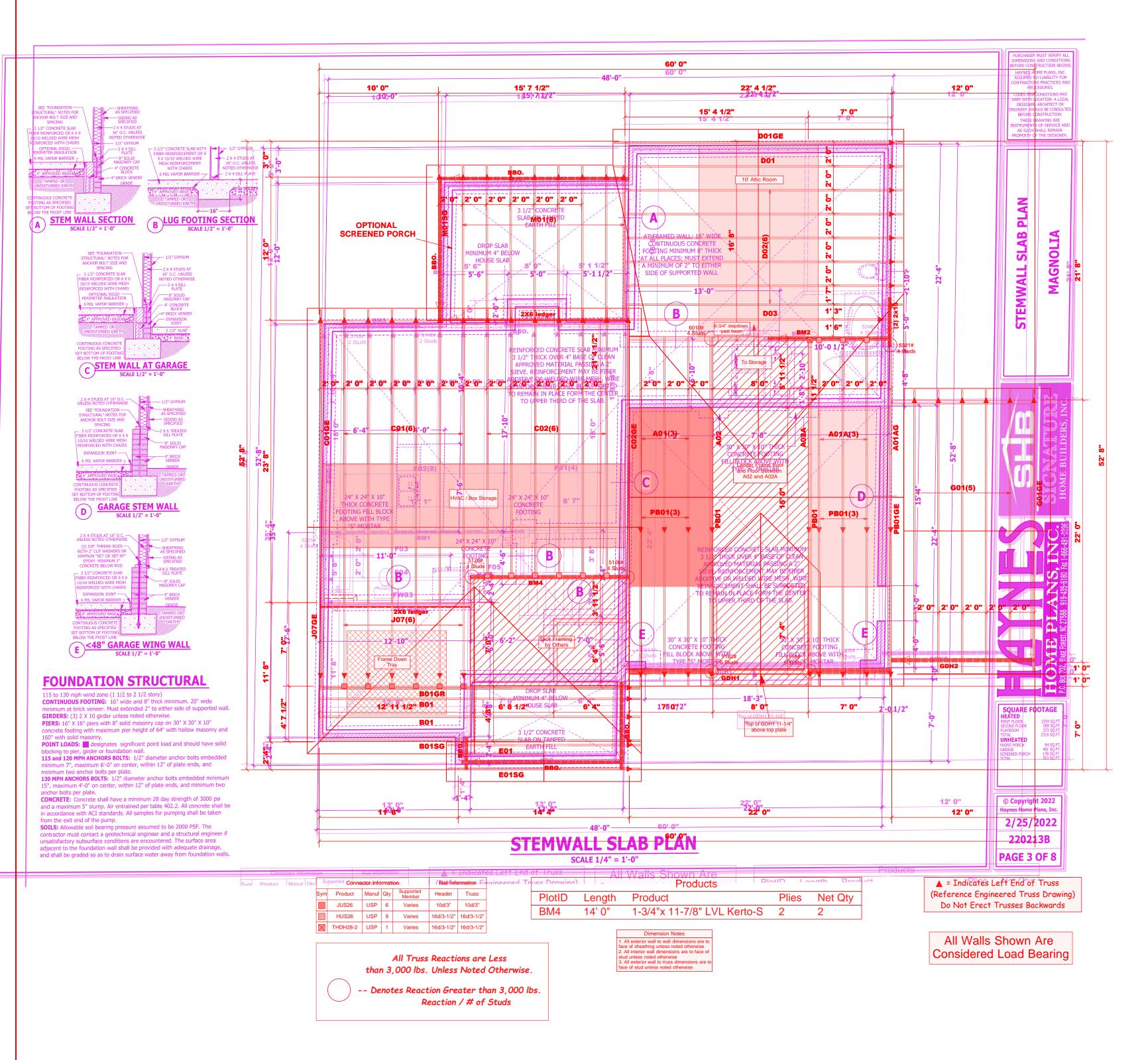
Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

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



This design is valid until 11/3/2024 CSD DESIGN



COMTECH **ROOF & FLOOR TRUSSES & BEAMS**

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

Bearing reactions less than or equal to 3000# are 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#.

Hampton Horrocks

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF

Lillington Rd., Upchurch Hampton Horrocks Anthony Williams Mamie 245 DRAWN BY ADDRESS DATE REV Signature Home Builders 245 Mamie Upchurch Rd · Upchurch Rd

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 russ delivery package or online @ sbcindustry.com

 $^{\circ}$

Magnolia :

NAME

JOB N PLAN

BUILDER

02/25/22

1#1

Quote

SEAL DATE QUOTE # JOB #