PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 18'-6" HEIGHT TO RIDGE: 25'-0'

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	ID SPEED	OF 120 MF	H, 3 SECO	UND GUST	(93 FAST	EST MILE)	EXPOSUR	(FR
COMPONENT	& CLA	DDING	DESIG	NED FO	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
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4
DESIGNED FOR WIN	ID SPEED	OF 130 MP	H, 3 SECO	OND GUST	(101 FAS	TEST MILE	E) EXPOSU	RE "B"
DESIGNED FOR WIN								
	& CLA		DESIG		R THE		WING I	
COMPONENT	& CLA	DDING O 30'	DESIG	NED FC TO 35'	35'-1"	FOLLO TO 40'	WING 40'-1"	LOADS
COMPONENT MEAN ROOF	& CLA UP T	DDING O 30' -18.0	DESIG 30'-1"	NED FC TO 35' -18.9 -22.1	OR THE 35'-1" 18.2 18.2	FOLLO TO 40' -19.6	WING 40'-1" 18.7	LOADS TO 45'
COMPONENT MEAN ROOF ZONE 1	& CLA UP T 16.7	DDING O 30' -18.0 -21.0	DESIG 30'-1" 17.5	NED FC TO 35' -18.9 -22.1	OR THE 35'-1" 18.2 18.2	FOLLO TO 40' -19.6 -22.9	WING 40'-1" 18.7 18.7	_OADS TO 45' -20.2 -23.5
COMPONENT MEAN ROOF ZONE 1 ZONE 2	& CLA UP T 16.7 16.7	DDING O 30' -18.0 -21.0	DESIG 30'-1" 17.5 17.5 17.5	NED FC TO 35' -18.9 -22.1	35'-1" 18.2 18.2 18.2	FOLLO TO 40' -19.6 -22.9	WING 40'-1" 18.7 18.7 18.7	OADS TO 45' -20.2 -23.5 -23.5

GUARD RAIL NOTES

SECTION R312

R312.1 Where required. *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or *grade* below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a *guard*.

AIR LEAKAGE

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

Section N1102.4

R312.2 Height. Required *guards* at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads.

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

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 odges of the troads.

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.

ROOF VENTILATION

SECTION R806

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

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

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

 2. Enclosed attic/rafter spaces over unconditioned space may be vented with

continuous soffit vent only.

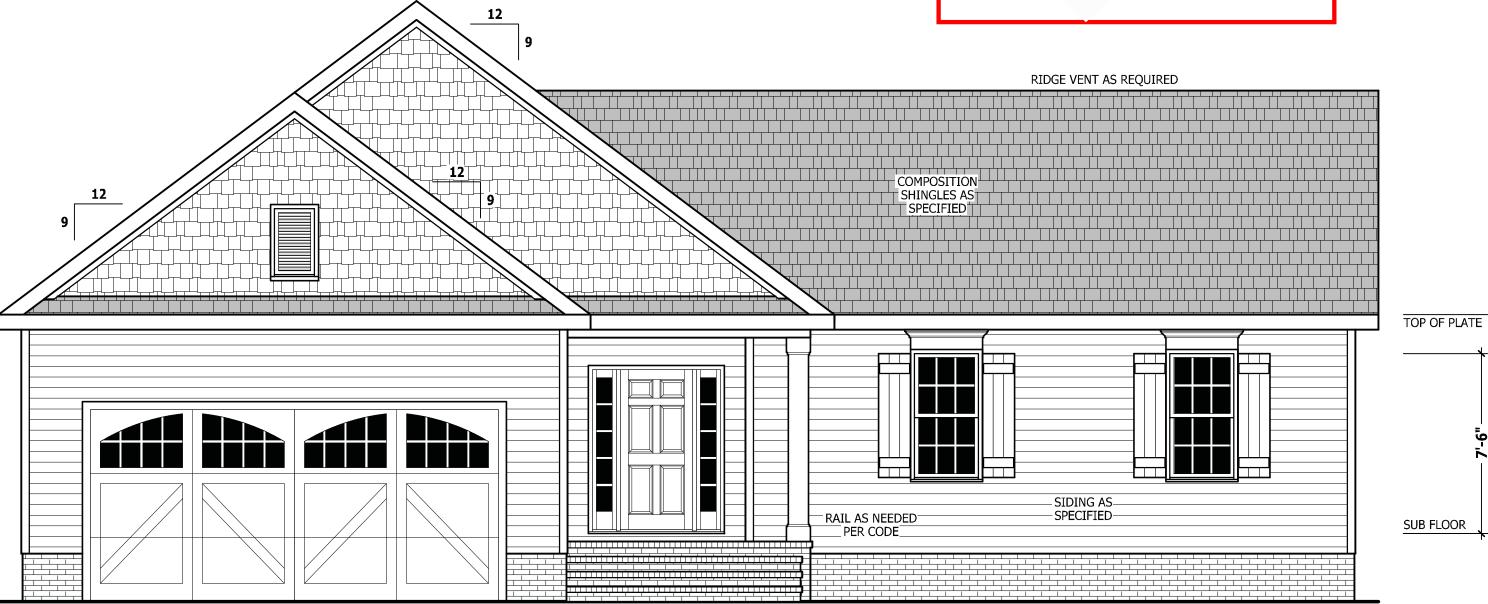
SQUARE FOOTAGE OF ROOF TO BE VENTED = 1,984 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

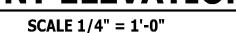
WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 13.23 SQ.FT.

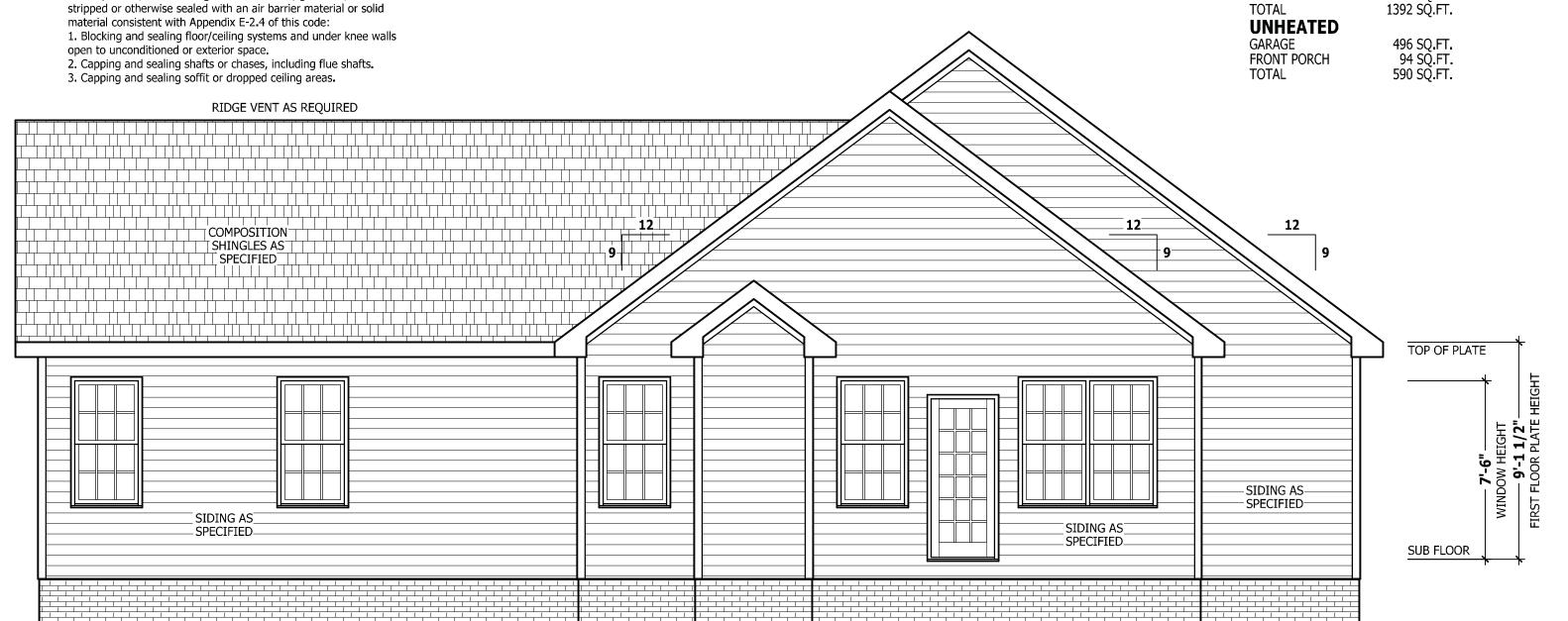
WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II
VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 6.61 SQ.FT.





FRONT ELEVATION





REAR ELEVATION

SCALE 1/4" = 1'-0"

PURCHASER MUST VERIFY ALL
DIMENSIONS AND CONDITIONS
BEFORE CONSTRUCTION BEGINS
HAYNES HOME PLANS, INC.
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CONTRACTORS PRACTICES AND

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

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REAR ELEVATION

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SQUARE FOOTAGE

HEĂTED

FIRST FLOOR

Bailey

FRONT



 SQUARE FOOTAGE

 HEATED
 1392 SQ.FT

 FIRST FLOOR
 1392 SQ.FT

 TOTAL
 1392 SQ.FT

 UNHEATED
 GARAGE

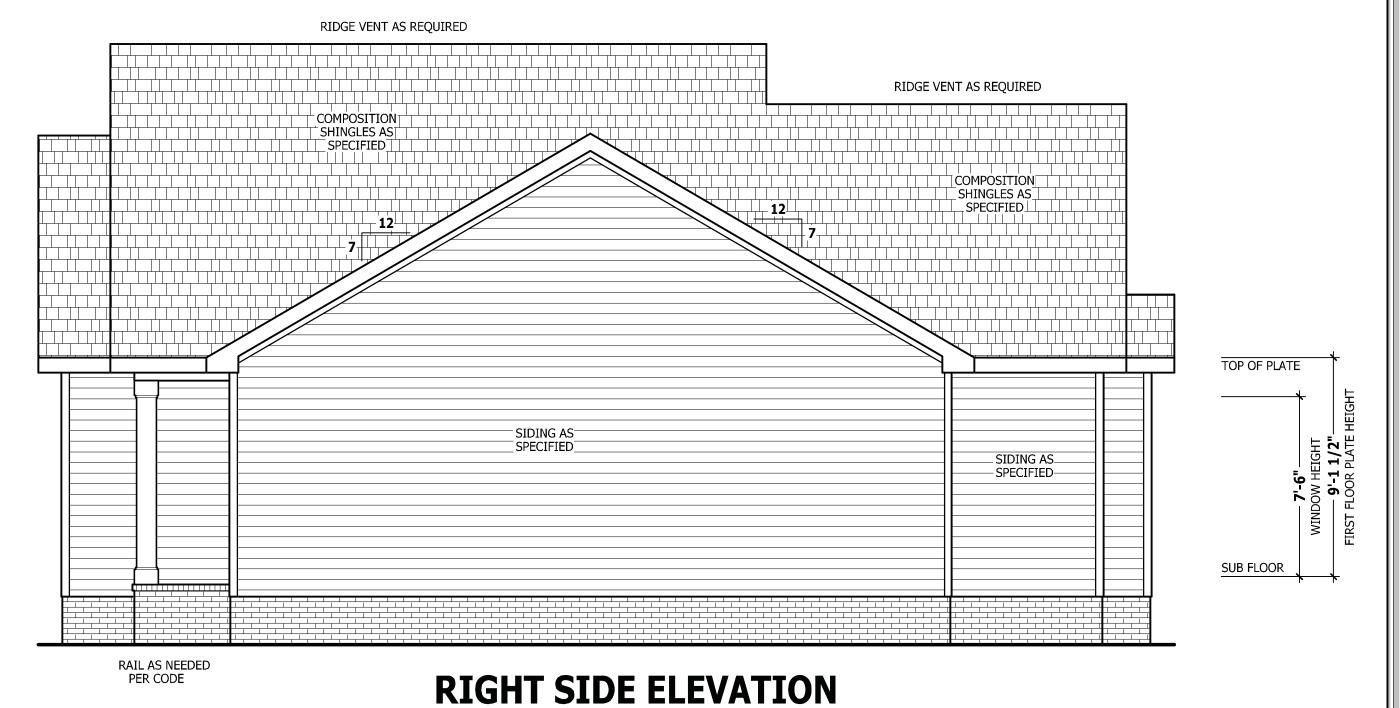
 FRONT PORCH
 94 SQ.FT

 TOTAL
 590 SQ.FT

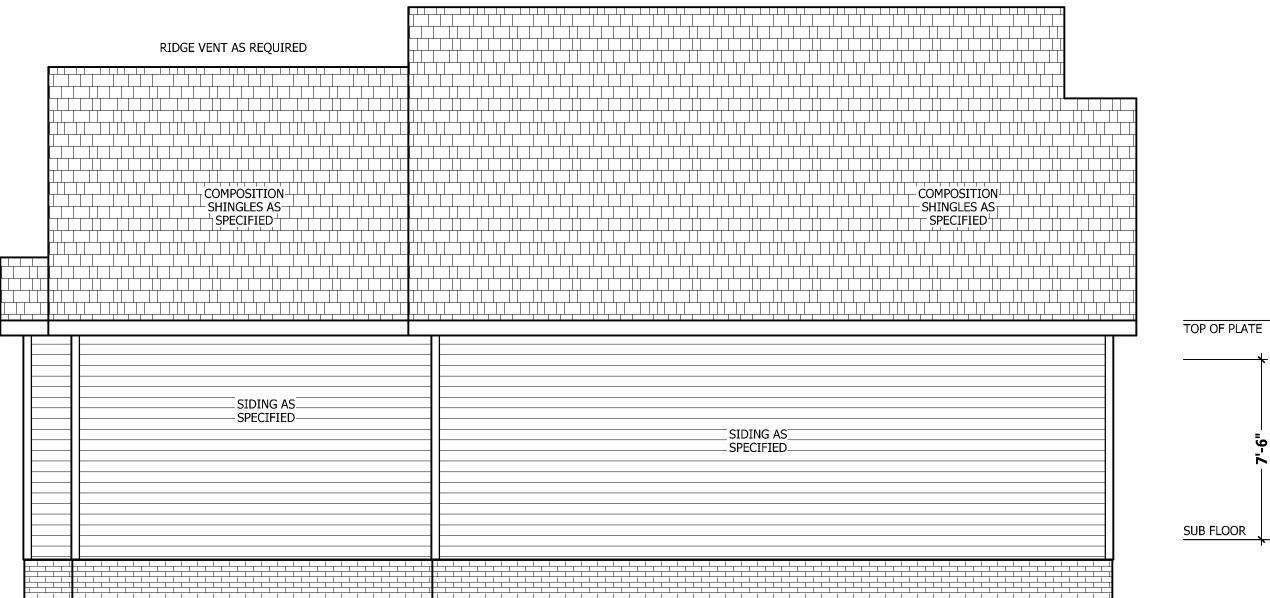
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SCALE 1/4" = 1'-0" RIDGE VENT AS REQUIRED RIDGE VENT AS REQUIRED



LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"

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ELEVATIONS

Bailey SIDE





 SQUARE FOOTAGE

 HEATED
 1392 SQ.FT.

 FIRST FLOOR
 1392 SQ.FT.

 TOTAL
 1392 SQ.FT.

 UNHEATED
 GARAGE

 GARAGE
 496 SQ.FT.

 FRONT PORCH
 94 SQ.FT.

 TOTAL
 590 SQ.FT.

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Z:\Builder\Signature Home Builders, Inc\161109B Bailey\161109B Bailey-SP

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WALL SLAB PLAI

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ST

Baile

SIGNATIVIRE HOME BUILDERS, INC.

 SQUARE FOOTAGE

 HEATED
 1392 SQ.FT.

 FIRST FLOOR
 1392 SQ.FT.

 TOTAL
 1392 SQ.FT.

 UNHEATED
 GARAGE

 FRONT PORCH
 94 SQ.FT.

 TOTAL
 590 SQ.FT.

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1. Concealed areas not located over the main structure including porches, areas behind

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net

knee walls, dormers, bay windows, etc. are not required to have access.

clear opening.

METHOD PF PER FIGURE AND SECTION R602.10.1)

SCALE 1/4" = 1'-0"

FRONT PORCH

TOTAL

94 SQ.FT.

590 SQ.FT.

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

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PLAN

Bailey The

FLOOR

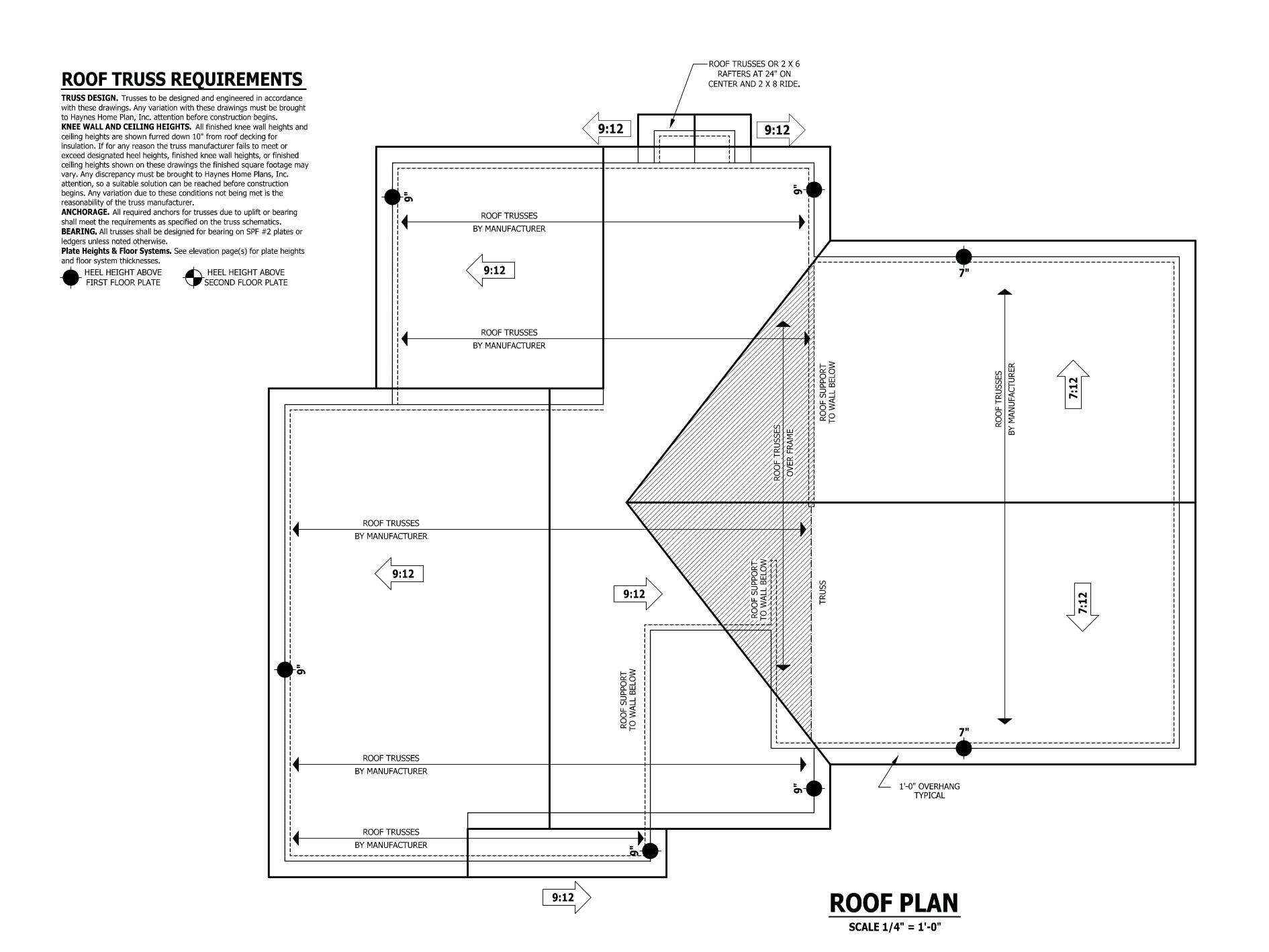
UNHEATED 496 SQ.FT 94 SQ.FT 590 SQ.FT GARAGE FRONT PORCH TOTAL

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ROOF PLAN

The Bailey

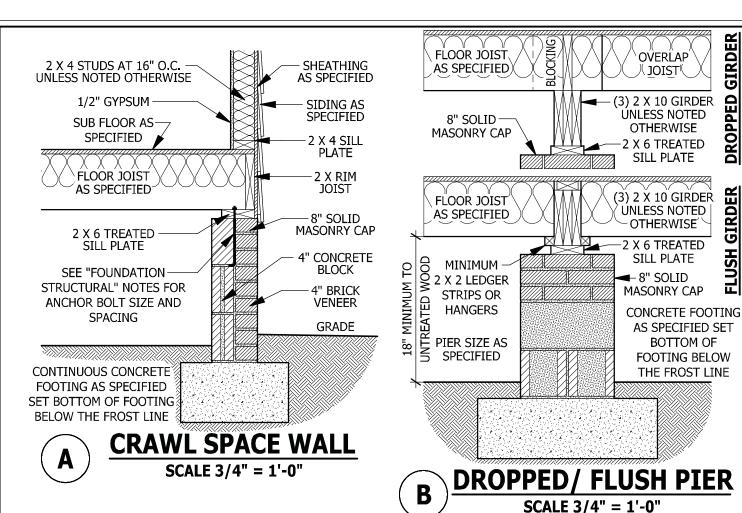


SQUARE FOOTAGE
HEATED
FIRST FLOOR 1392 SQ.FT.
TOTAL 1392 SQ.FT.
UNHEATED
GARAGE 496 SQ.FT.
FRONT PORCH 94 SQ.FT.

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2 X 4 STUDS AT 16" O.C. 1/2" GYPSUM UNLESS NOTED OTHERWISE **SHEATHING** SEE "FOUNDATION AS SPECIFIED STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND SIDING AS **SPACING** 3 1/2" CONCRETE SLAB 2 X 6 TREATED SILL PLATE FIBER REINFORCED OR 6 X 6 10/10 WELDED WIRE MESH 8" SOLID REINFORCED WITH CHAIRS MASONRY CAP EXPANSION JOINT 4" BRICK 6 MIL VAPOR BARRIER **VENEER** GRADE يُّوْءُ 4" APPROVED BASE وَالْمُوْرِيُّةُ وَالْمُوالِيَّةُ الْمُؤْمُّةُ وَالْمُوْرِيِّةُ وَالْمُوْرِيِّةُ وَال TAMPED OR UNDISTURBED ∛EARTH∜ CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING BELOW THE FROST LINE **GARAGE STEM WALL**



SCALE 3/4" = 1'-0" **DECK STAIR NOTES**

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

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.

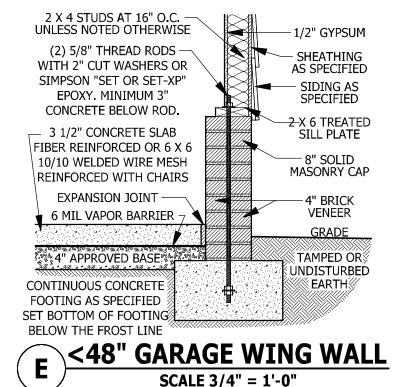
AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall 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 and the following:

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

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.



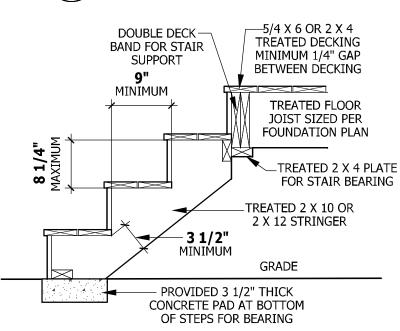


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

-WEEP SCREED

MINIMUM 4" TO

GROUND OR 2"

←TO PAVEMENT

GRADE

SHEATHING AS SPECIFIED

AS SPECIFIED

LATH-

SEE FOUNDATION

FOR FOUNDATION

DETAILS

WEEP SCREED

SCALE 3/4" = 1'-0"

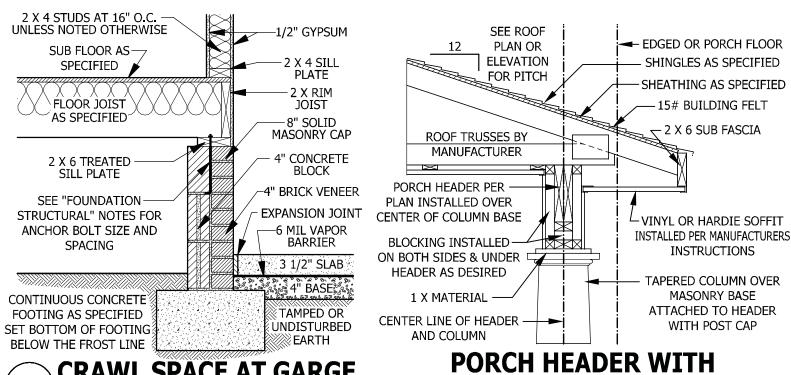
WEEP SCREEDS

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

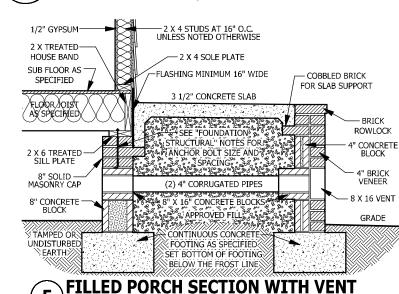
R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C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

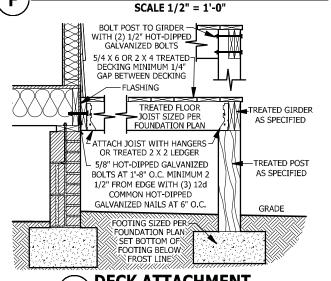
attachment flange of the weep screed.

shall cover and terminate on the



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





DECK ATTACHMENT SCALE 1/2" = 1'-0"

SMOKE ALARMS

R314.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with

Exception: Where smoke alarms are provided meeting the requirements of Section R314.4.

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

1. In each sleeping room.

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

the bedrooms. 3. On each additional *story* of the *dwelling*, including *basements* and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic-stories. In *dwellings* or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

R314.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a building. The weather-resistant barrier shall commercial source, and when primary power is interrupted, shall 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.

CARBON MONOXIDE ALARMS

TAPERED COLUMN

SCALE 3/4" = 1'-0"

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).

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

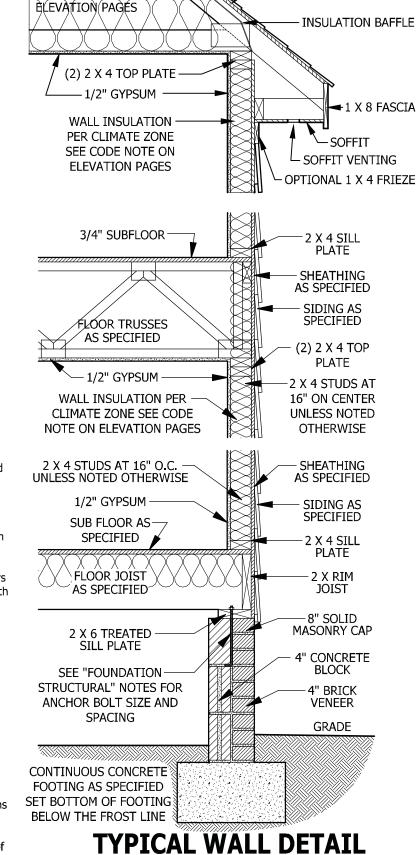
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

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

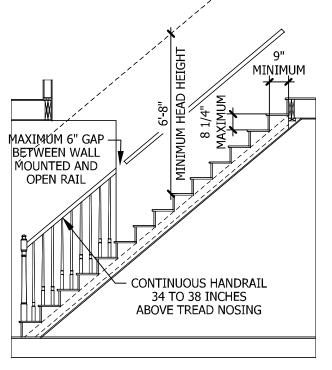
PER CLIMATE ZONE

SEE CODE NOTE ON

- SHINGLES AS SPECIFIED

—15# BUILDING FELT

-SHEATHING AS SPECIFIED



SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL

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SOUARE FOOTAGE

1392 SQ FT 1392 SQ FT

496 SQ.FT 94 SQ.FT 590 SQ.FT

HEATED

UNHEATED

GARAGE FRONT PORCH

PURCHASER MUST VERIFY ALL

EFORE CONSTRUCTION BEGINS

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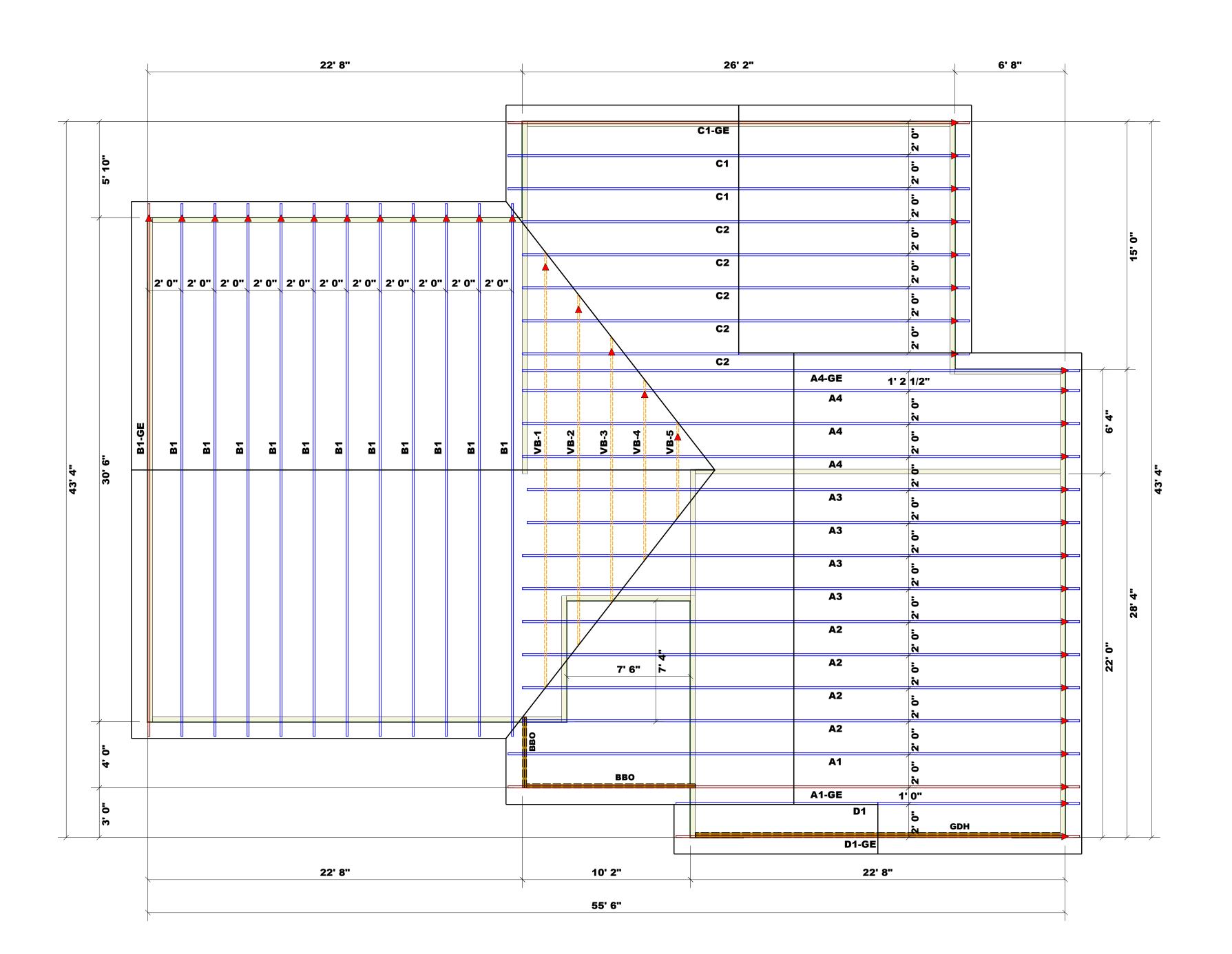
PROPERTY OF THE DESIGNER.

ETAIL

TYPICAL

Bailey

IGINEER SHÓULD BE CONSULTEI



Plumbing Drop Notes 1. Plumbing drop locations shown are NOT exact. 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.

3. Adjust spacing as needed not to exceed 24"oc

Roof Area = 2854.65 sq.ft.
Ridge Line = 92.64 ft.
Hip Line = 0 ft.
Horiz. OH = 127.5 ft.
Raked OH = 225.75 ft.
Decking = 98 sheets

All Walls Shown Are Considered Load Bearing

		Beam Schedule			
PlotID	Length	Product	Plies	Net Qty	Fab Type
GDH	23' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise

2. All interior wall dimensions are to face of sheathing unless noted otherwise

3. All exterior wall to truss dimensions are to face of sheathing unless noted otherwise

= Indicates Left End of Truss (Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

		Beam Schedule			
lotID	Length	Product	Plies	Net Qty	Fab Type
BDH	23' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

соттесн **ROOF & FLOOR TRUSSES & BEAMS** Reilly Road Industrial Park Fayetteville, N.C. 28309

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

Phone: (910) 864-8787 Fax: (910) 864-4444

ature Anthony Williams

Anthony Williams

3400 1 6800 2 10200 3 13600 4 17000 5 1700 1 3400 2 5100 3 6800 4 8500 5 10200 6 11900 7 13600 8 15300 9 2550 1 5100 2 7650 3 10200 4 12750 5 15300 6

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

NUMBER OF JACK STUDS REQUIRED @ EA END OF

HEADER/GIRDER



Client: Signature

Project: Address:

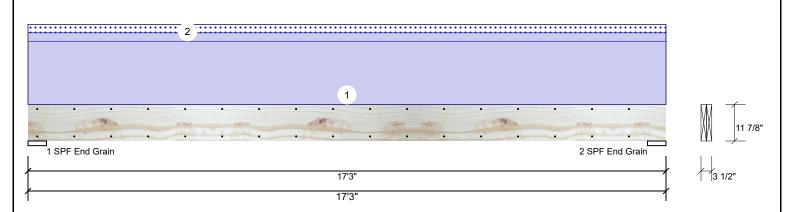
Date: 8/2/2023

Input by: Anthony Williams Job Name: Bailey

Project #: J0623-2848

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

Level: Level



Member In	formation						Read	ction	ns UNP	ATTERI	NED I	b (Uplift)			
Type:	Girder		Applicati	on:	Floor		Brg	Dire	ection	Live)	Dead	Snow	Wind	Const
Plies:	2		Design N	/lethod:	ASD		1	Vert	tical	()	1546	173	0	0
Moisture Cor	ndition: Dry		Building	Code:	IBC 2012		2	Vert	tical	()	1546	173	0	0
Deflection LL	.: 480		Load Sha	aring:	No										
Deflection TL	.: 360		Deck:		Not Checked										
Importance:	Normal -	II													
Temperature	: Temp <=	100°F													
							Bear	rings	s						
							Bea	aring	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - End		6.000"	Vert	10%	1546 / 173	1718	L	D+S
Analysis Re	esults						Gra								
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	1	SPF	6.000"	Vert	10%	1546 / 173	1718	L	D+S
Moment	6008 ft-lb	8'7 1/2"	17919 ft-lb	0.335 (34	%) D	Uniform	End Gra								

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6008 ft-lb	8'7 1/2"	17919 ft-lb	0.335 (34%)	D	Uniform
Unbraced	6678 ft-lb	8'7 1/2"	6684 ft-lb	0.999 (100%)	D+S	L
Shear	1288 lb	1'5 7/8"	7980 lb	0.161 (16%)	D	Uniform
LL Defl inch	0.035 (L/5617)	8'7 9/16"	0.409 (L/480)	0.085 (9%)	S	L
TL Defl inch	0.348 (L/564)	8'7 9/16"	0.546 (L/360)	0.638 (64%)	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 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 a maximum of 14'10 7/16" o.c.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral siende	mess ratio based on s	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	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL	
2	Tie-In	0-0-0 to 17-3-0	0-6-0	Тор	40 PSF	0 PSF	40 PSF	0 PSF	0 PSF	ROOF	
	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
- 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



Page 1 of 2

This design is valid until 11/3/2024

isDesign

Client: Signature

Project: Address:

8/2/2023

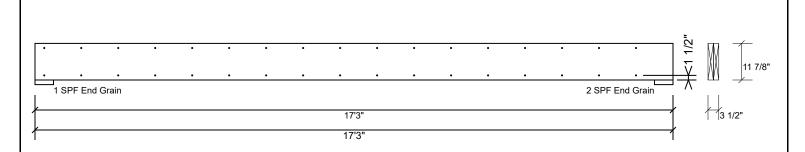
Input by: Anthony Williams Job Name: Bailey

Page 2 of 2

Project #: J0623-2848

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

Level: Level



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".

1 3		
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
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Handling & Installation

- Handling & Installation

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