



Use	Live Load (PSF)	Dead Load (PSF)	Deflection (LL)
Attic Without Storage	10	10	L/240
Attic With Limited Storage	20	10	L/360
Attic With Fixed Stairs	40	10	L/360
Balconies & Decks	40	10	L/360
Fire Escapes	40	10	L/360
Guardrails & Handrails	200		1
Guardrail Infill 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		

**GENERAL CONSTRUCTION NOTES:** 

1. Design Loads: Local

Materials A. Brick

Face Brick Standard: ASTM C216-84, Grade SW.

Brick type and color to match existing.

B. Mortar ASTM C270, Type S. Mortar style and color consult owner

Do not use calcium chloride in mortar.

ASTM A82 steel wire, hot dip galvanized after fabrication to ASTM A 153/A 153M, Class B C. Brick Ties

ASTM C665; pre-formed glass fiber batt (R-19)

E. Wood Framing No. 2 Southern Pine

F. Waterproofing #15 asphalt felt G. Roof Shingles Match existing

3. Masonry:

A. Install mortar in accordance with premix mortar instructions or in accordance with ASTM C780.

B. Clean mortar off exposed finished surfaces immediately following placement.

C. Conform to the applicable code requirements for masonry construction and guidelines outlined by the Brick Institute of America.

D. Provide brick ties.

E. Cut masonry units with motor-driven saws to provide clean, sharp, unchipped edges.

F. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing with adhesive/sealant/tape as recommended by flashing manufacturer before covering with mortar.

G. Install weep holes in the head joints in exterior wythes of the first course of masonry immediately above embedded flashings as

- Keep head joints free and clear of mortar.

- Space weep holes 24 inches o/c. H. Weep Holes:

I. After wall construction is complete, clean brick with a non-acidic solution recommended by masonry unit manufacturer.

4. Insulation

A. Verify that adjacent materials and insulation materials are dry.

B. Install insulation per manufacturer's instructions.

C. Tape seal tears or cuts in vapor retarder.

5. Wood Framing

A. All field nailing will comply with the North Carolina State Building Code Fastening Schedule Table 2304.10.1 unless noted otherwise.

09/04/2025

All nails are to be common nails.

B. Miscellaneous framing not shown on the structural drawings may be required in some areas. Contractor will provide all framing

required to complete the project. C. Exterior Wall Sheathing:

a) Sheathing will be 1/2" plywood APA rated sheathing with an exterior exposure 1 durability rating.

b) Place long dimension of sheathing perpendicular to studs in a staggered arrangement. Fasten to studs with 10d common nails 6"o/c at all panel edges and 12"o/c at intermediate supports. Block all unsupported edges.

c) Leave 1/4" space at all panel edge joints and 1/8" space at all panel end joints unless otherwise recommended by manufacturer.

D. Plywood Roof Sheathing

a) Roof sheathing is to be APA rated with an exterior exposure 1 rating and a panel span rating of 32/16. Thickness of sheathing is to match existing roof sheathing thickness.

b) Place long dimension of sheathing perpendicular to outriggers. Remove sections of existing sheathing and stagger every other new plywood sheet back to the 2nd interior roof truss. Fasten to trusses and outriggers with 10d common nails, 6"o/c at all panel edges and 12"o/c at intermediate supports. Block all unsupported edges.

c) Leave 1/4" space at all panel edge joints and 1/8" space at all panel end joints unless otherwise recommended by the manufacturer. E. Do not cut or notch new or existing framing unless required on this drawing.

6. Miscellaneous

A. The contractor will be responsible for properly guying and bracing the structure to resist live, dead, wind and construction loads during

B. Verify all existing building dimensions, elevations and details with the field conditions.



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# evelopment o., Inc. Weaver

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SCALE:

DATE:

June 6, 2025

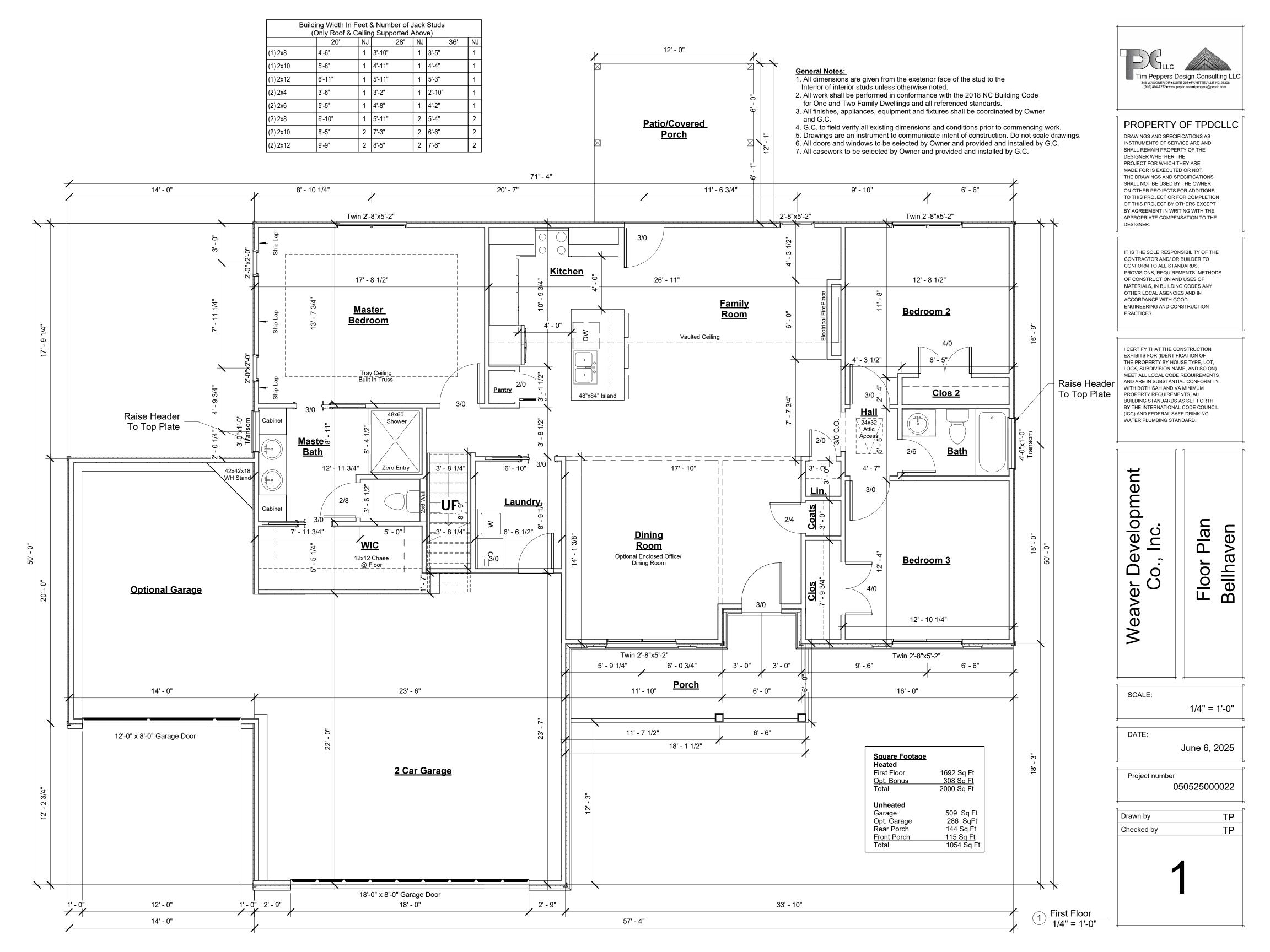
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Cover

Bellhaven

Project number 050525000022

Drawn by TP Checked by TP



### Floor Plan Notes:

- 1. All structural information shown is for reference purposes only. Contractor shall have licensed structural engineer review and design all structural elements such as all framing walls, beams, connections, headers,
- 2. All dimensions are from center line of stud to face of exterior stud unless noted otherwise.
- 3. Window sizes indicated on plans are noted by approximate rough opening size. Refer to plans and exterior elevations for window types.
- 4. Coordinate location of utility meters with site plan and locate away from public view visual impact shall be minimized, i.e. mount as low as possible.
- 5. Prefabricated fireplace construction shall meet or exceed all applicable codes regarding use of fire separations, clearances, etc. It is all items and contractor's responsibility to ensure that all items and construction meet or exceed the applicable code. Overall flue height shall be coordinated to match height shown on plans and shall not exceed the top of chimney chase as constructed.
- 6. Constractor shall coordinate all closet shelving requirements.
- 7. Do not scale drawings. Follow dimensions only.
- 8. Contractor shall field verify all cabinet dimensions before fabrication.
- 9. Bedroom windows shall have a minimum net clear opening of 5.7 sq. ft. A minimum net clear openable width of 20". A minimum net clear openable height of 24" and have a maximum finish sill height of 43" from
- 10. All glass located within 18" of floor, 12" of a door of located within 60" of floor at bathtubs, whirlpools, showers, saunas, steam rooms or hot tubs shall be tempered.
- 11. All exposed insulation shall have a flame spread rating of less than 25 and a smoke density rating of
- less than 450. 12. Provide combustion air vents, with screen and back damper, for fireplaces, wood stoves and any
- appliance with an open flame. 13. Bathrooms and utility rooms shall be vented to the outside with a minimum of a 90 cfm fan. Range
- hoods shall also be vented to outside. 14. Attic HVAC units shall be located within 20'-0" of its service opening. Return air grilles shall not be located within 10'-0" of a gas fired appliance.
- 15. All walls and ceilings in garage and garage storage areas to have 5/8" Type-X gyp. brd. with 1-Hour fire rating. All exterior doors in garage to be metal or solid core doors including doors entering heat/cooled
- portion of residence. 16. All fireplace chase walls shall be insulated inside and outside. Provide horizontal "Draft Stops" at each floor level by packing 6" (R-19) insulation between 2X4 joists.
- 17. All interior walls shall be covered with 1/2" gyp. brd., with metal corner reinforcing, tape float and sand. (3 coats) use 5/8" gyp. brd. on ceilings when supporting members are 24" O.C. or greater. Use 1/2" gyp. brd. on ceiling members less than 24" O.C.
- 18. All bath and toilet area walls and ceiling shall have water resistant gyp. brd.

### Dwelling/Garage Separation

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

Walls. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling

assemblies used for separation required by this section.

Stairs. A minimum of 1/2" gypsum must be installed on the underside and exposed sides of all

Ceilings. A minimum of 1/2" gypsum must be installed on the garage ceiling if there is no habitable room above. If a habitable room is above, a minimum of 5/8" Type X gypsum board must be installed on the the garage ceiling.

Opening Penetrations. Openings between the garage and the residence shall be equipped with solid wood doors not less than 1 3/8 inches in thichess, solid or honeycomb core steel doors not less than

1 3/8 inches thich, or 20-minute fire-rated doors.

Duct Penetrations. Ducts in the garage and ducts penetrating the walls or ceilings sparation the dwelling from the garage shall be constructed of a minimum No. 26 gage sheet steel or other approved material and shall have no openings into the garage.

Other Penetrations. Penetrations through the separtion required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

# Walls & Thicknesses

All walls are 3 1/2" thick 2x4 nominal studs SYP or SPF #2 @ 16 " O.C.

unless otherwise noted.

Exterior walls are drawn to actual dimensions to include both interior and exterior finishes. Measurements to exterior walls are to the exterior face of wall stud.

Garage walls are drawn to actual dimensions. Measurements to exterior walls are to the exterior face of wall stud. Measurements to walls between the residence and the garage a to the face of the stud on the garage side.

Interior walls are drawn to actual dimension. Measurements to interior walls

# are to the center line of the wall.

### **Carbon Monoxide Alarms** Section R315

R315.1 Carbon Monoxide Alarms. Inn new contsruction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeeping 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, reparis, fuel-fired appliance replacements, or additions requiring a permit occures, or where one or more sleeping rooms are added of created, carbon monoxide alarms shall be provided in acccordance with Section R315.1.

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 UL2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

### **Smoke Alarms**

### Section R314

R314.1 Smoke Detection and Notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with provisons of this code and the household fire warning equipment provisons fo NFPA 72.

R314.2 Smoke Detection Systems. Household fire alarm systems installled in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible ntificaition 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 houshold 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 and approved supervising station and be maintained in accordance with NFPA72.

Exception: Where smoke alarms are provided meeting the requirements of Section R314.4. **R314.3 Location.** Smoke alarms shall be installed in the following locations.

- 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, unihabitable (unfinished) attics and unianhabitable (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 that none full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shll be interconnected in such a manner that that the actuation of one alarm will activate all of the alarms in the individual unit. **R314.4 Power Source.** Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnection switch other than those required for

overcurrent protection. Smoke alarms shall be interconnected.

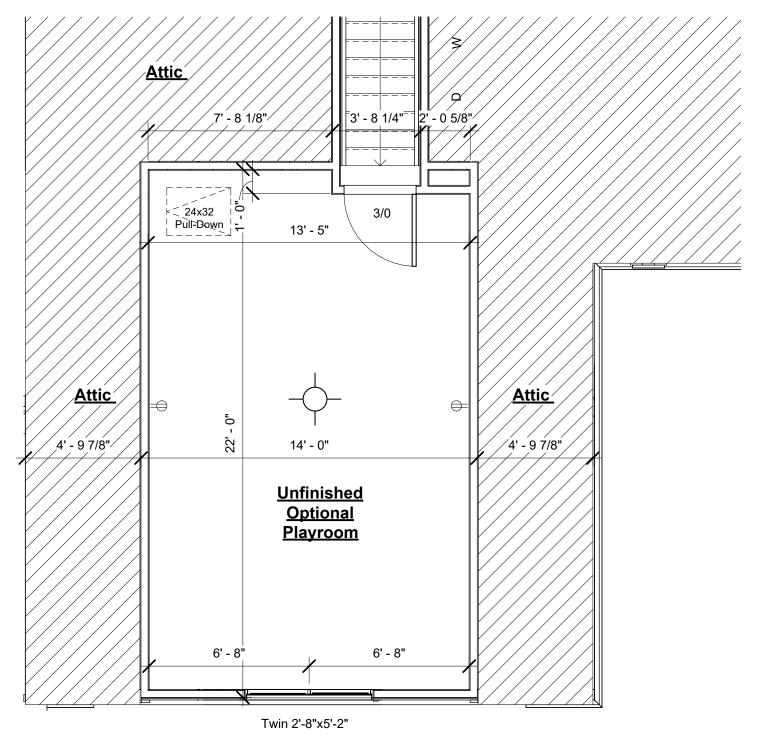
# **Attic Access**

# Section R807

R807.1 Attic Access. An attic access opeing shall be provided to attic areas that exceed 400 square feet and have a vertical height of 60 inches or greater. The net clear opening shall not be less than 20 inches by 30 inches and shall be located in the hallway or other unobstructed area. Headroom in the attic space shall be provided at some point above the access opening. See Sectio M1305.1.3 for access requirements where mechanical equipmentis located above attics.

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 area



Optional Bonus Room
1/4" = 1'-0"



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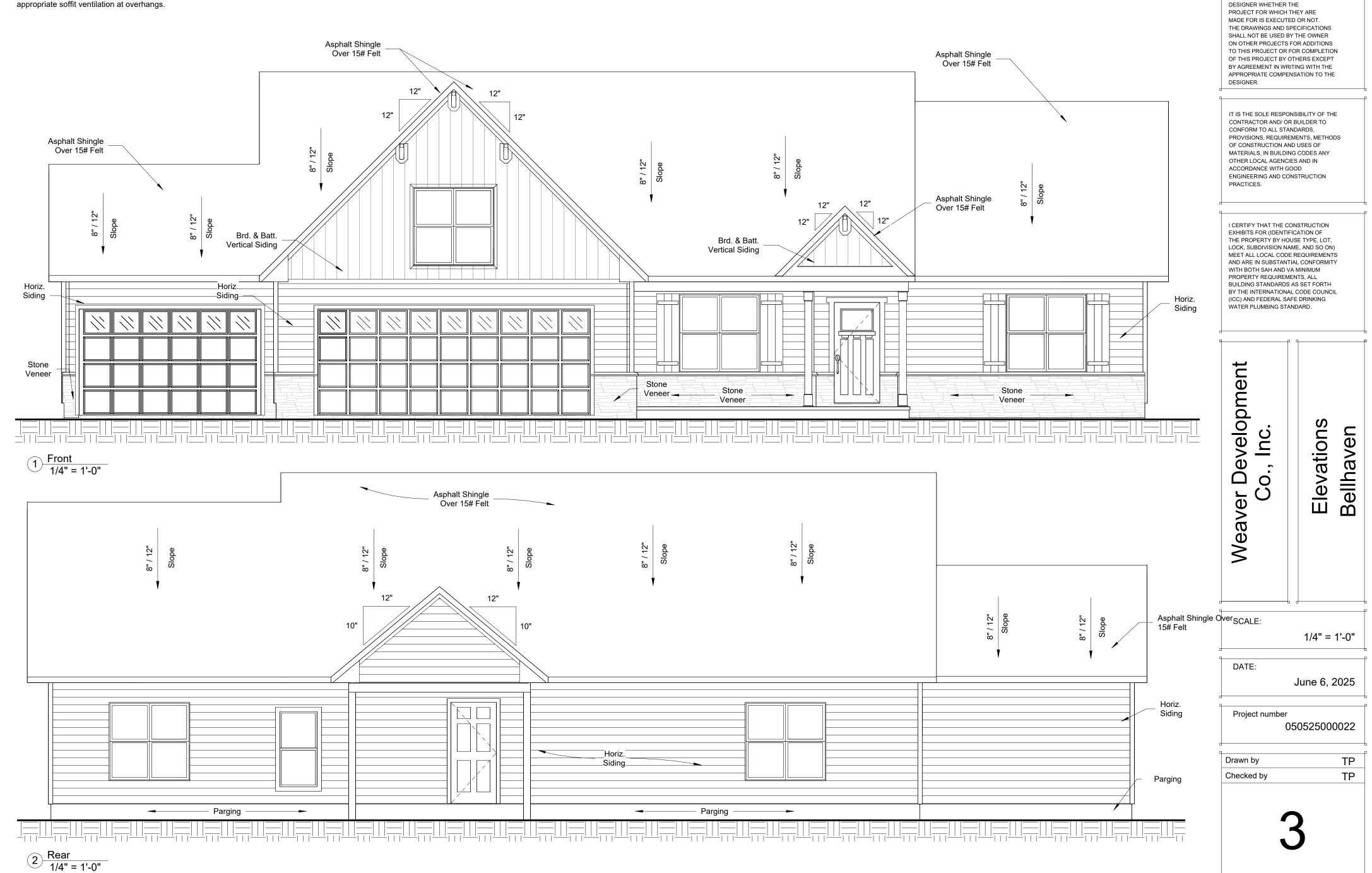
June 6, 2025

Project number 050525000022

Drawn by TP Checked by TP

# Elevation Notes:

- 1. Gutters and downspouts are not shown for clarity, downspouts shall be located towards teh front and rear of the house. Locate downspouts in non-visually offensive locations. General contractor shall verify existing grades and coordinate any necessary drainage requirements with owner.
- 2. Plumbing and HVAC vents shall be grouped in attic to limit roof penetrations and to be located away from public view and shall be primed and painted to match roof color where necessary.
- 3. Provide attic ventilation per local code requirements.
- 4. Exterior flashing shall be correctly installed at all connections between roofs, walls, chimneys, projections and penetrations as required by approved construction practices.
- 5. Contractor shall provide adequate attic ventilations/roof vents per local governing code. Install continuous ridge ventilation and match to roof. Provide appropriate soffit ventilation at overhangs.



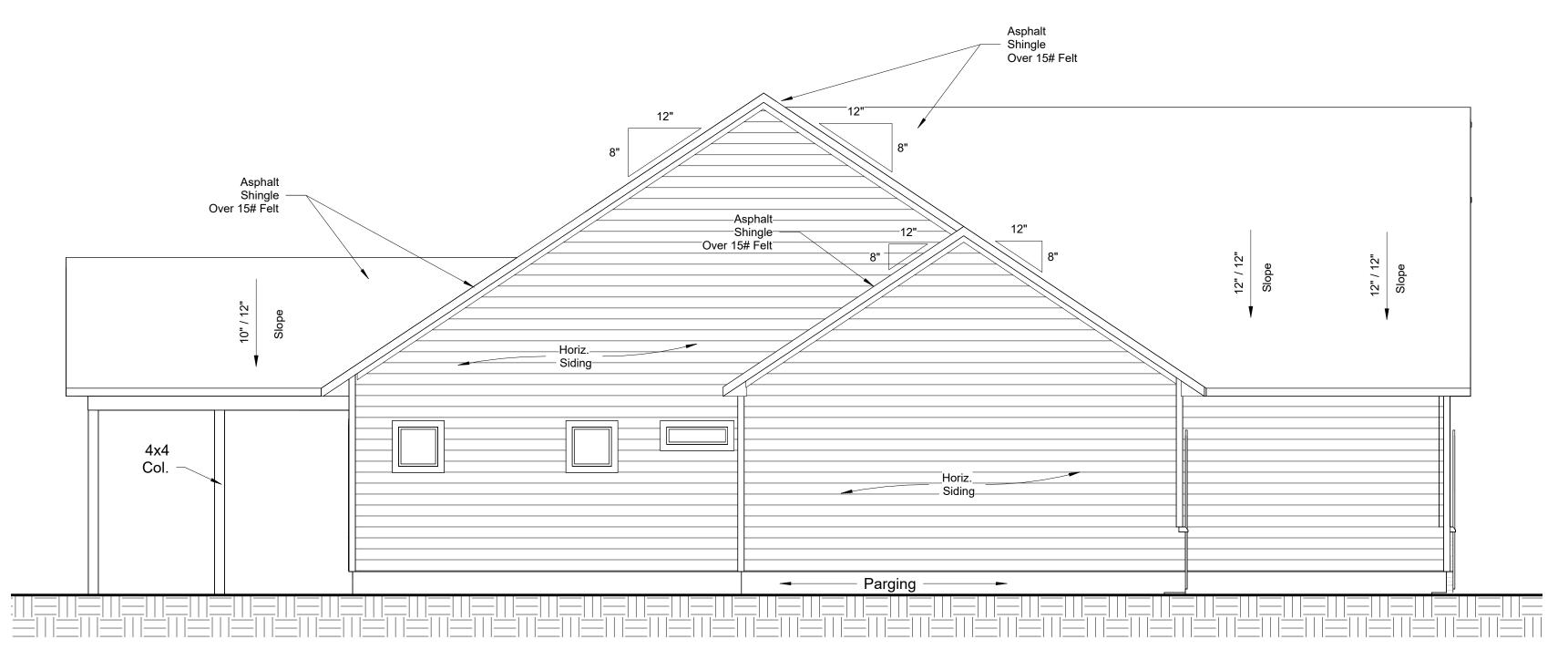
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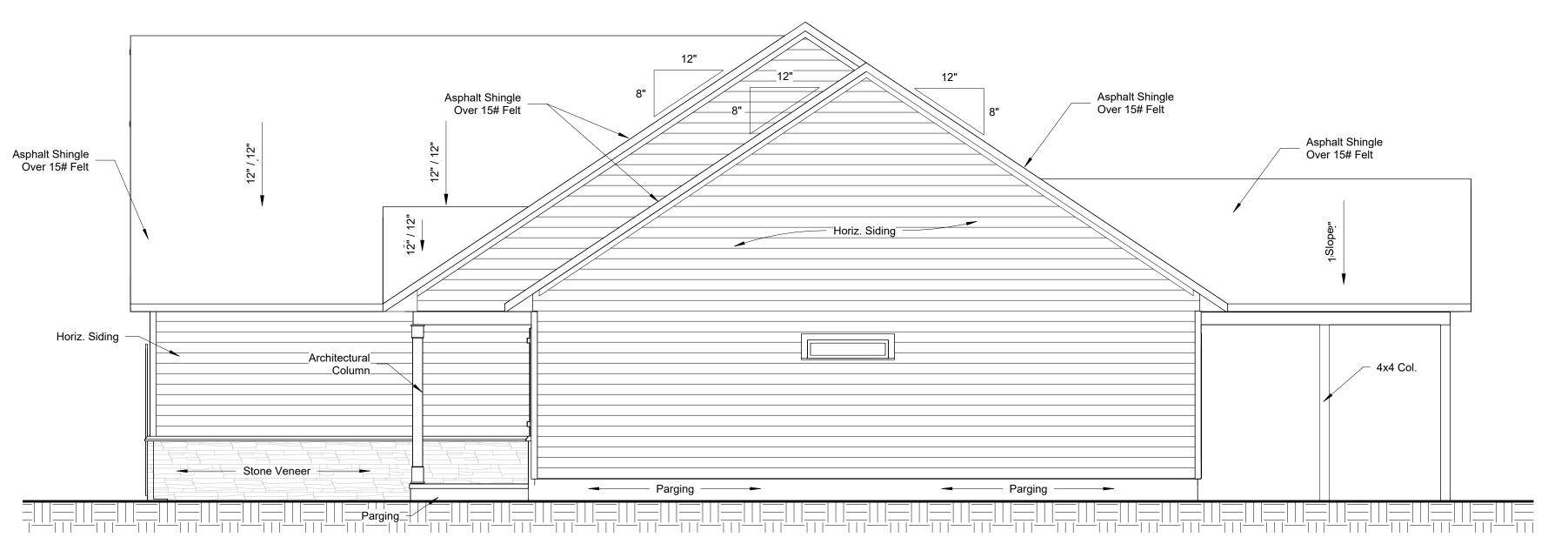
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2 Right 1/4" = 1'-0"



1 Left 1/4" = 1'-0"



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# Weaver Development Co., Inc.

Elevations (C Bellhaven

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

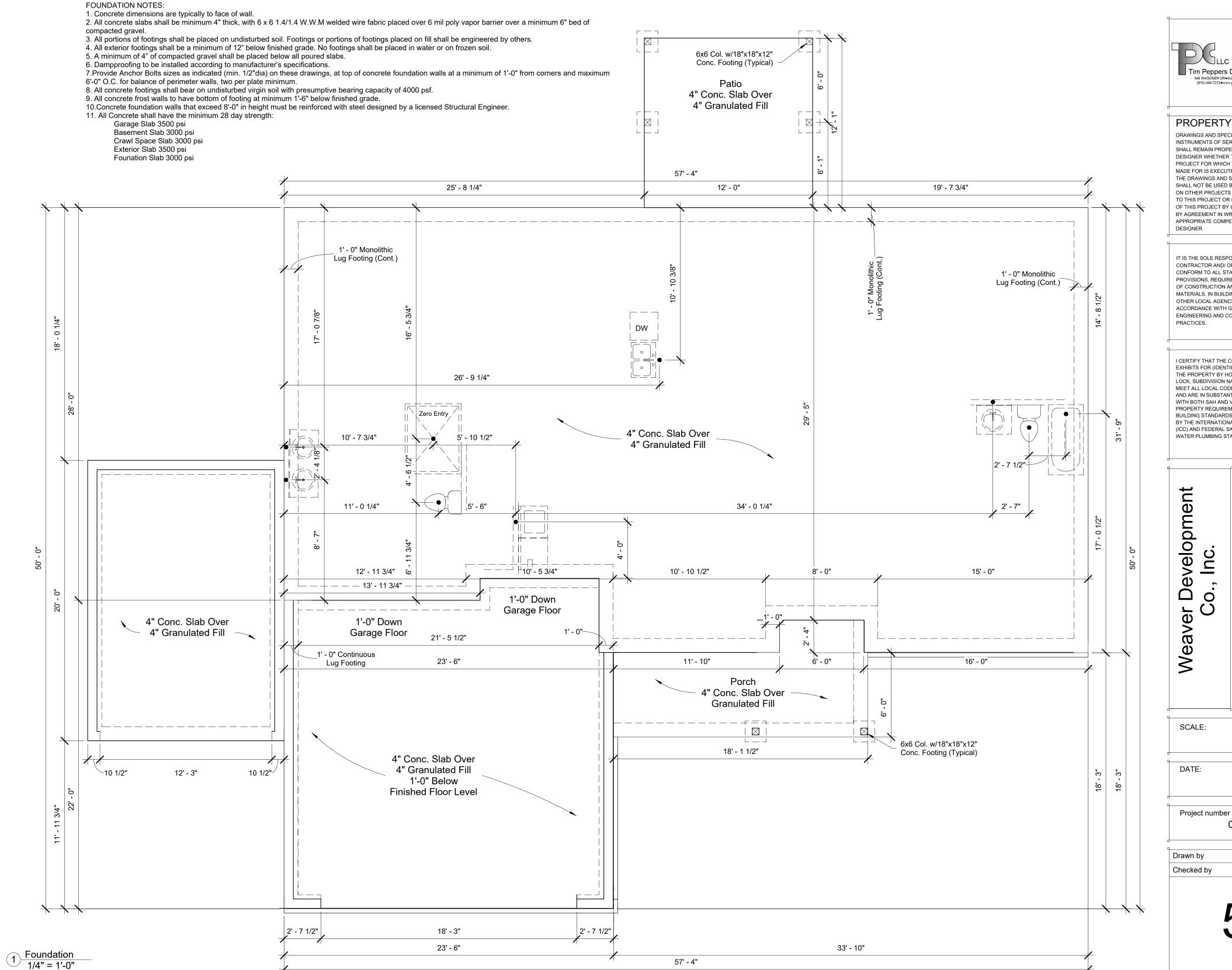
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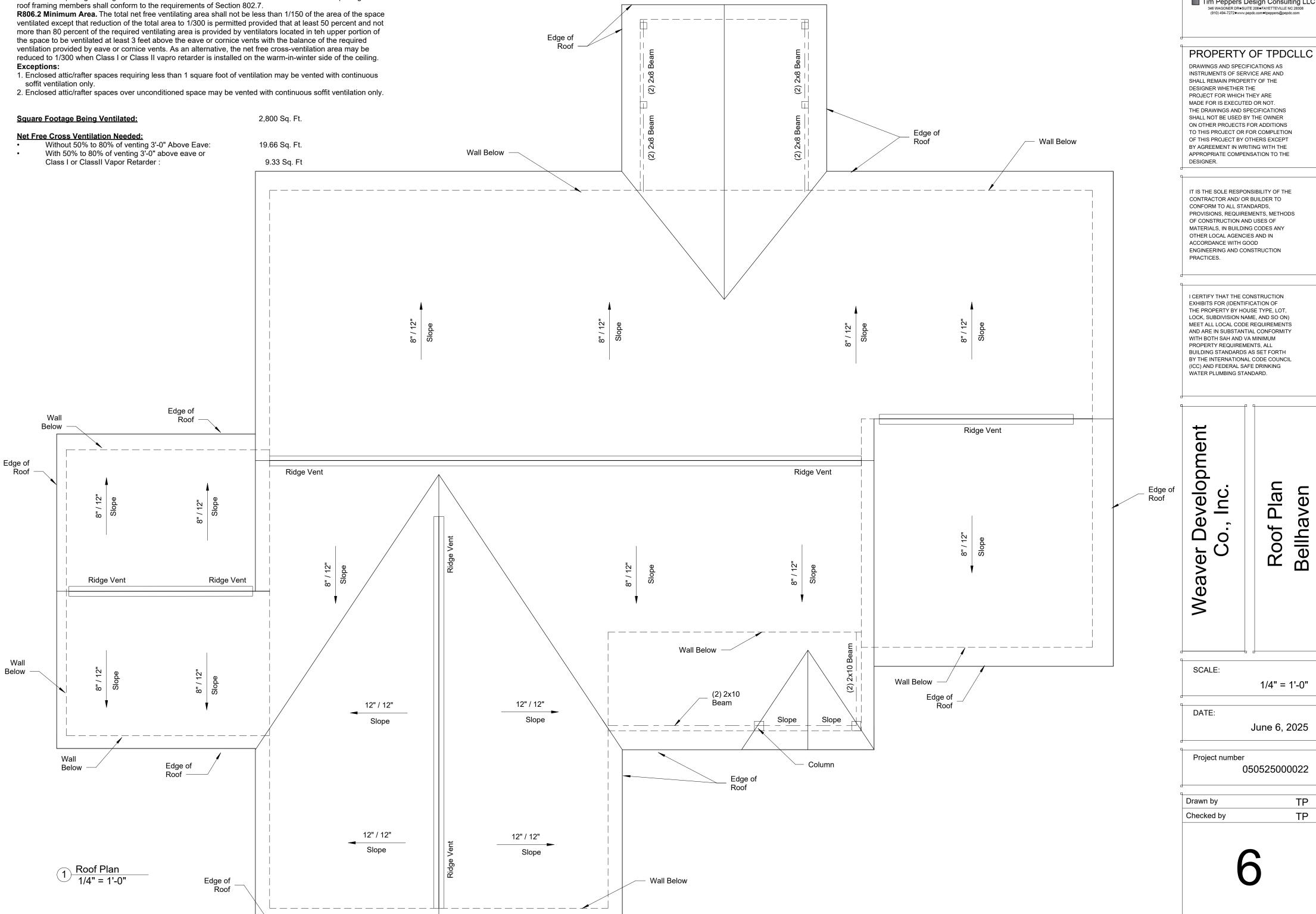
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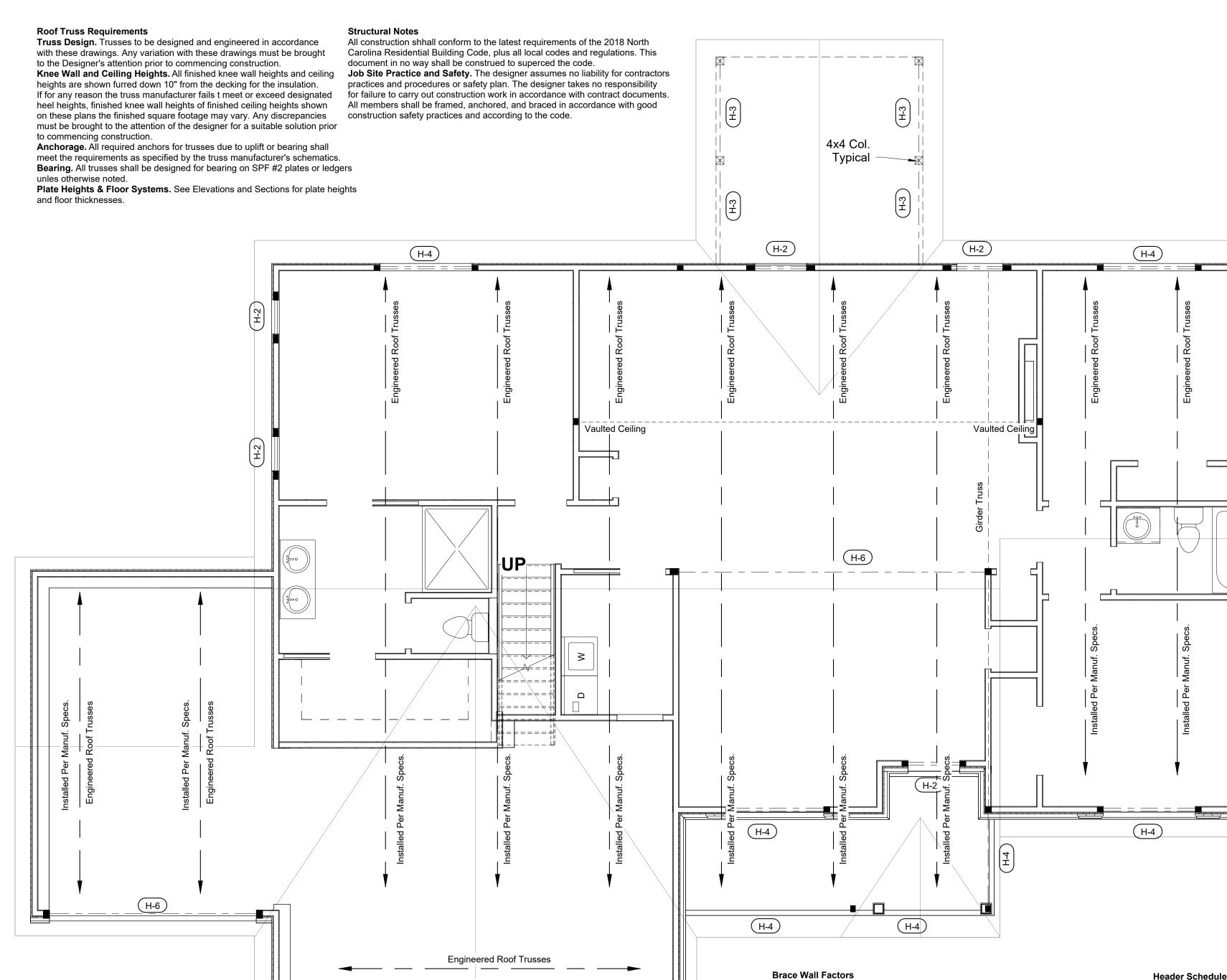
# **Roofing Ventilation** Section R806

**R806.1 Ventilation Required.** Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of the 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 minimum nad 1/4 inch maximum. Ventilation opening having a least dimension larger than 1/4 inch shall be provided with corosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch minimum and 1/4 inch maximum. Openings in





TP TP



Installed Per Manuf. Specs.

Engineered Roof Trusses

Installed Per Manuf. Specs.

(H-6)

Structural Plan

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# Plan Bellhaven Structural

SCALE:

1/4" = 1'-0"

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**Header Schedule** 

Seismic Category

A or B

Provided

24'-8"

19'-8"

25'-3"

34'-2"

Eave: 13'-0"

Exposure

Required

18'-2"

18'-2"

17'-9"

17'-9"

Roof +1

Max Eave

to Ridge

13'-0"

Rectangle A

Side

2

3

4

Wall Height: 9'-0"

Speed

110

Perp. Distance

40'-0"

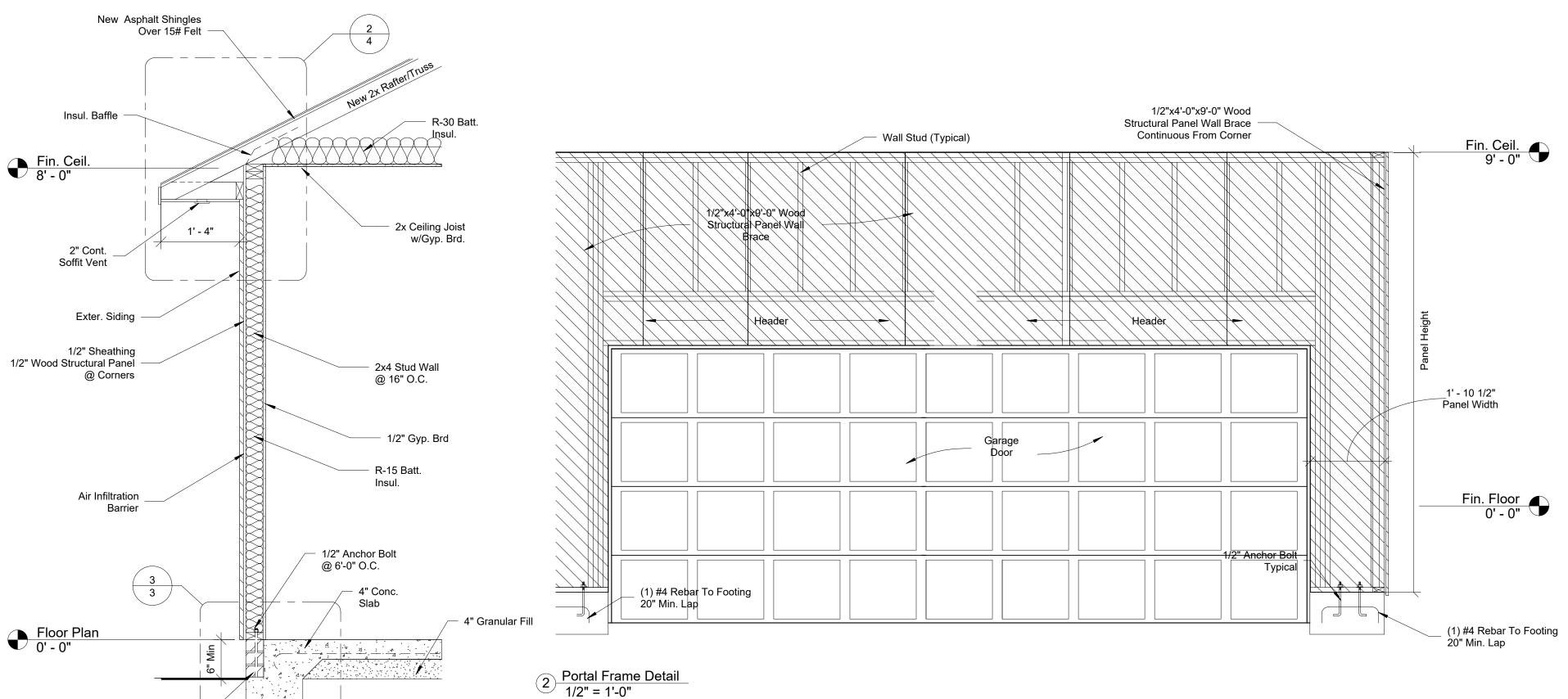
40'-0"

39'-0"

39'-0"

Header	Size	Columns
H-1	(2) 2x4	1 Jack 1 King
H-2	(2) 2x6	1 Jack 1 King
H-3	(2) 2x8	1 Jack 1 King
H-4	(2) 2x10	2 Jack 1 King
H-5	(2) 2x12	2 Jack 1 King
H-6	3 1/2"x11 7/8" LVL	2 Jack 1 King

All non load bearing headers to be ladder framed or (2) 2x4 with 1 Jack and 1 King Stud unless otherwise noted



**Braced Wall Panel Notes** 

1 Walls Section 3/4" = 1'-0"

4" Face

Brick

**Exterior Walls.** All exterior walls shall be sheathed with CS-WSP or CS-SFB in accordance with Section R602.10.3 unless otherwise noted. **Gypsum.** All interior sides of extrior walls and both sides of interior walls shall have 1/2" gypsum board installed. When not using med GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per 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

length. Method PF contributes 1.5 times its actual length. **HD.** 800 bls hold down devices fastened to the edge of the brace wall panel closest to the corner.

Methods Per table R602.10.1

**CS-WSP.** Shall be a minimum of 3/8" OSB or CDX nailed at 6" O.C. at edges and 12" O.C. at intermediate supports with 6d common nails or 8d (2 1/2" long x 0.113"

and SC-SFB contribute their actual length. Method GB contributes 0.5 it;s actual

**CS-SFB.** Shall be a minimum 1/2" structural fiber board nailed at 3" O.C. at edges and 3" O.C. at intermediate supports with 1 1/2" x 0.12" diameter galvanized roofing nails.

**GB.** Interior walls shown as GB are to have a minimum 1/2" gypsum board applied to both sides of the wall fastened at 7" O.C. at edges and along intermediate supports with minimum 5d common nails or #6 screws. **PF.** Portal Frame per Portal Frame Detail.

Framing Lumber.

All non treated framing lumber shall be SPF #2 or SYP #2 and all treated lumber shall be SYP #2 unless otherwise noted **Engineered Wood Beams.** 

Laminated Veneer Lumber (LVL) = Fb=2600 psi, Fv=285 psi, E=1.9x10<sup>6</sup> psi Parallel Strand Lumber (PSL) = Fb=2900 psi, Fv=295 psi, E=2.0x10<sup>6</sup> psi Laminated Strand Lumber (LSL) = Fb=2250 psi, Fv=400 psi, E=1.55x10<sup>6</sup> psi Install all connections per manufacturer's specifications.

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 manufacturer's specifications. Lintels.

Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for upt to 6'-0" and 6" x 4" x 5/16" steel angle with 6" leg vertical for spans upt to 9'-0" unless

Concrete & Soils.

See Foundation Notes

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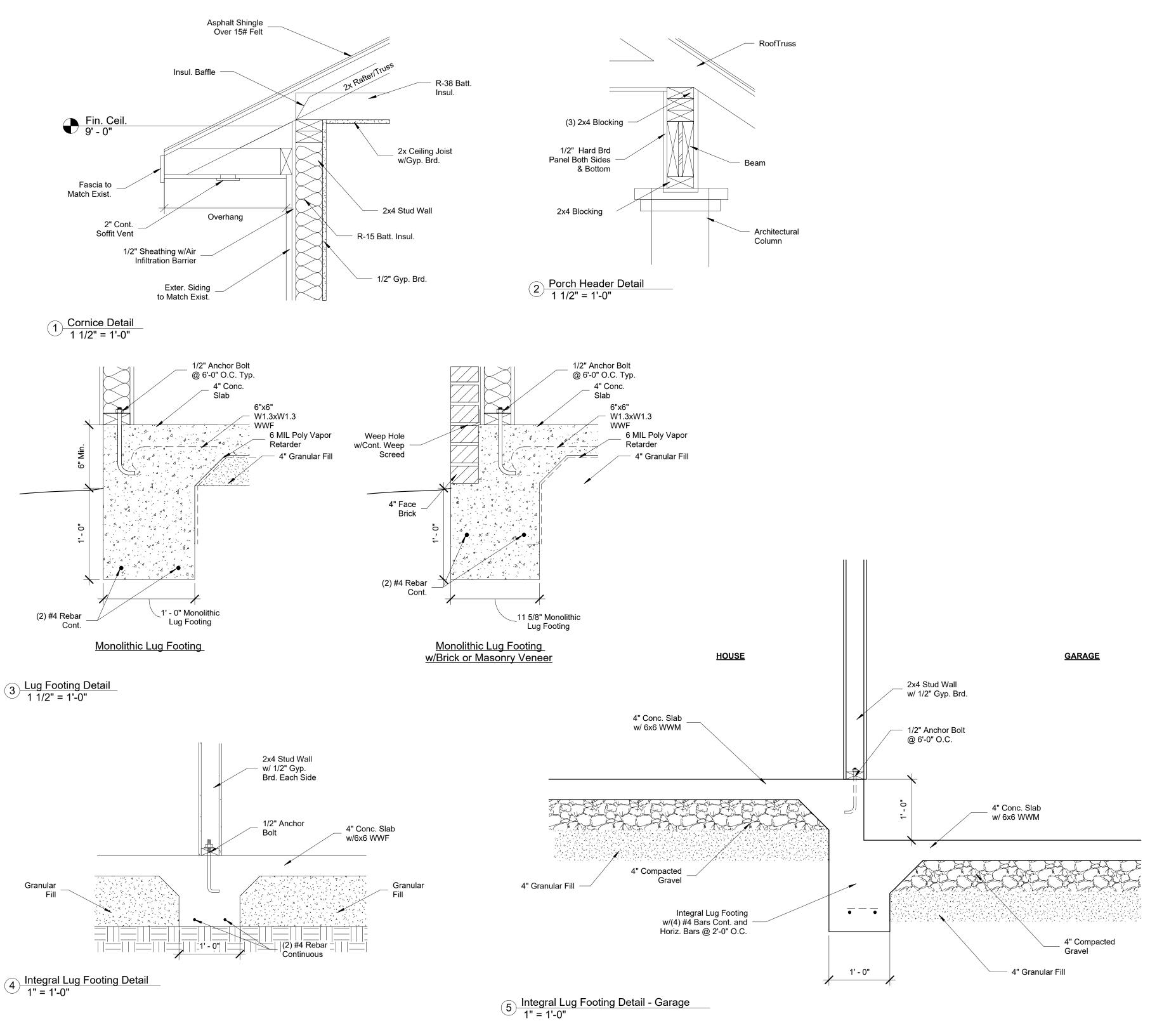
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IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/ OR BUILDER TO CONFORM TO ALL STANDARDS, PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS, IN BUILDING CODES ANY OTHER LOCAL AGENCIES AND IN ACCORDANCE WITH GOOD ENGINEERING AND CONSTRUCTION PRACTICES.

I CERTIFY THAT THE CONSTRUCTION EXHIBITS FOR (IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND SO ON) MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS, ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

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Details

**∞** 

Bellhaven

# Weaver Development Co., Inc.

# Sections

SCALE:
As indicated

DATE:

June 6, 2025

Project number 050525000022

Drawn by TP
Checked by TP

9



Client:

WEAVER DEVELOPMENT

Project: Address: Date: 8/17/2025

Input by: LENNY NORRIS Job Name: BELLHAVEN

Page 1 of 2

11 7/8"

5 1/4"

Project #:

**GDH 18' FL** Kerto-S LVL 1.750" X 11.875" 3-Ply - PASSED

Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:

Floor

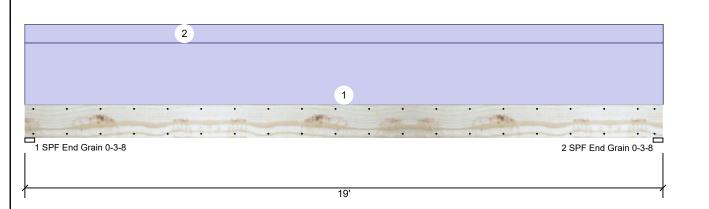
ASD

Yes

IRC 2018

Not Checked

Level: Level



### Reactions UNPATTERNED Ib (Uplift) Brg Direction Live Snow Wind Dead

### Const Vertical 0 2602 0 0 0 1 O 2602 O O 0 2 Vertical

### **Analysis Results**

Member Information

Moisture Condition: Dry

Girder

3

480

360

Normal - II

Temp <= 100°F

Type:

Plies:

Deflection LL:

Deflection TL:

Importance:

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11769 ft-lb	9'6"	27954 ft-lb	42%	D	Uniform
Unbraced	11769 ft-lb	9'6"	11788 ft-lb	100%	D	Uniform
Shear	2251 lb	1'3 3/8"	11970 lb	19%	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0%		
TL Defl inch	0.519 (L/429)	9'6 1/16"	0.618 (L/360)	84%	D	Uniform

# Bearings

Bearing	Length	Dir.	Cap. Rea	ct D/L lb	Iotal	Ld. Case	Ld. Con
1 - SPF End Grain	3.500"	Vert	17%	2602 / 0	2602	Uniform	D
2 - SPF End Grain	3.500"	Vert	17%	2602 / 0	2602	Uniform	D

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides.
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on bottom edge only and across their full width.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 12'2 7/8" o.c.
- 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	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GABLE END
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	DEAD WALL
	Self Weight				14 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

- 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

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

Manufacturer Info



This design is valid until 2/28/2028

isDesign

Client: Project: Address: WEAVER DEVELOPMENT

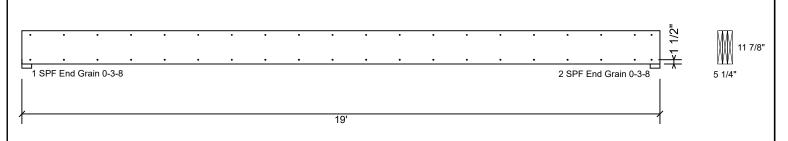
Date: 8/17/2025

Input by: LENNY NORRIS Job Name: BELLHAVEN

Page 2 of 2

Project #:

**Kerto-S LVL GDH 18' FL** 1.750" X 11.875" 3-Ply - PASSED Level: Level



### Multi-Ply Analysis

Fasten all plies using 2 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	163.7 PLF
Yield Limit per Fastener	81.9 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

### 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

- For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/28/2028

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us







Client: Project:

WEAVER DEVELOPMENT

Date: 8/17/2025 Input by:

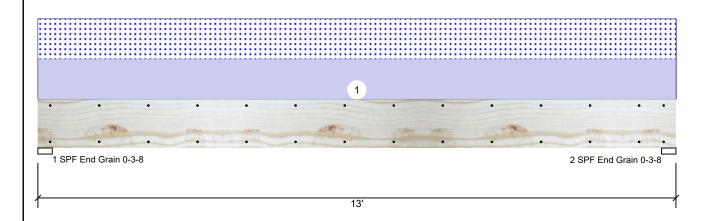
LENNY NORRIS Job Name: BELLHAVEN

Project #:

**GDH 12' FL** Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Address:

Level: Level





Page 1 of 2

Иer	mber	Info	orma	ıtion
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Type: Girder Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360

Importance: Normal - II Temperature: Temp <= 100°F Application: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: No Deck:

Not Checked

### Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1445	1385	0	0
2	Vertical	0	1445	1385	0	0

### **Bearings**

Grain

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 1445 / 1385 D+S Vert 2829 I End Grain 2 - SPF 3.500" 1445 / 1385 D+S Vert 2829 L End

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8557 ft-lb	6'6"	22897 ft-lb	37%	D+S	L
Unbraced	8557 ft-lb	6'6"	8560 ft-lb	100%	D+S	L
Shear	2271 lb	1'3 3/8"	10197 lb	22%	D+S	L
LL Defl inch	0.133 (L/1132)	6'6"	0.314 (L/480)	42%	S	L
TL Defl inch	0.272 (L/554)	6'6"	0.418 (L/360)	65%	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on bottom edge only and across their full width.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 11'2 1/16" o.c.
- 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	213 PLF	0 PLF	213 PLF	0 PLF	0 PLF	G1 TRUSS
	Self Weight				9 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

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

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

Manufacturer Info



This design is valid until 2/28/2028

isDesign

WEAVER DEVELOPMENT Client:

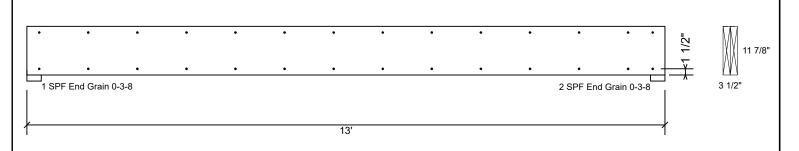
Project: Address: Date: 8/17/2025

Input by: LENNY NORRIS Job Name: BELLHAVEN

Page 2 of 2

Project #:

**Kerto-S LVL GDH 12' FL** 1.750" X 11.875" 2-Ply - PASSED 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".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1 00

### 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

- 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





WEAVER DEVELOPMENT Client:

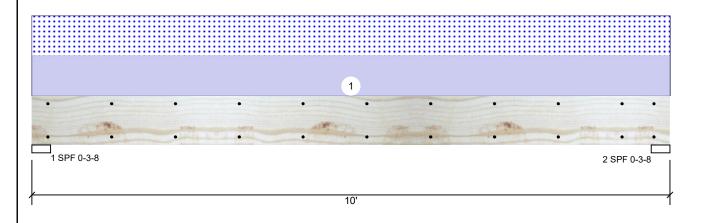
Project: Address: Date: 8/17/2025

Input by: LENNY NORRIS Job Name: BELLHAVEN

Project #:

1.750" X 9.250" Kerto-S LVL 2-Ply - PASSED BM1

Level: Level





3 1/2'

Page 1 of 2

Member Information

Type: Girder Plies: Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360

Importance: Normal - II Temperature: Temp <= 100°F Application: Floor Design Method: ASD **Building Code:** IRC 2018 Load Sharing: No Deck:

Not Checked

### Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1406	1370	0	0
2	Vertical	0	1406	1370	0	0

### **Bearings**

Bearing Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500"	Vert	53%	1406 / 1370	2776	L	D+S
2 - SPF 3.500"	Vert	53%	1406 / 1370	2776	L	D+S

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6318 ft-lb	5'	14423 ft-lb	44%	D+S	L
Unbraced	6318 ft-lb	5'	7699 ft-lb	82%	D+S	L
Shear	2186 lb	8'11 1/4"	7943 lb	28%	D+S	L
LL Defl inch	0.122 (L/940)	5'	0.239 (L/480)	51%	S	L
TL Defl inch	0.247 (L/464)	5'	0.318 (L/360)	78%	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on bottom edge only and across their full width.
- 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	274 PLF	0 PLF	274 PLF	0 PLF	0 PLF	C4 TRUSS
	Self Weight				7 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

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

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



This design is valid until 2/28/2028

isDesign

WEAVER DEVELOPMENT Client:

Project: Address: Date: 8/17/2025

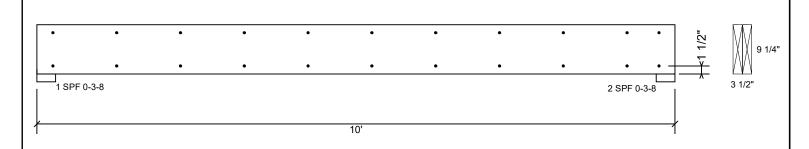
Input by: LENNY NORRIS Job Name: BELLHAVEN

Page 2 of 2

Project #:

**Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED BM1

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".

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	163.7 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1 00	

### 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

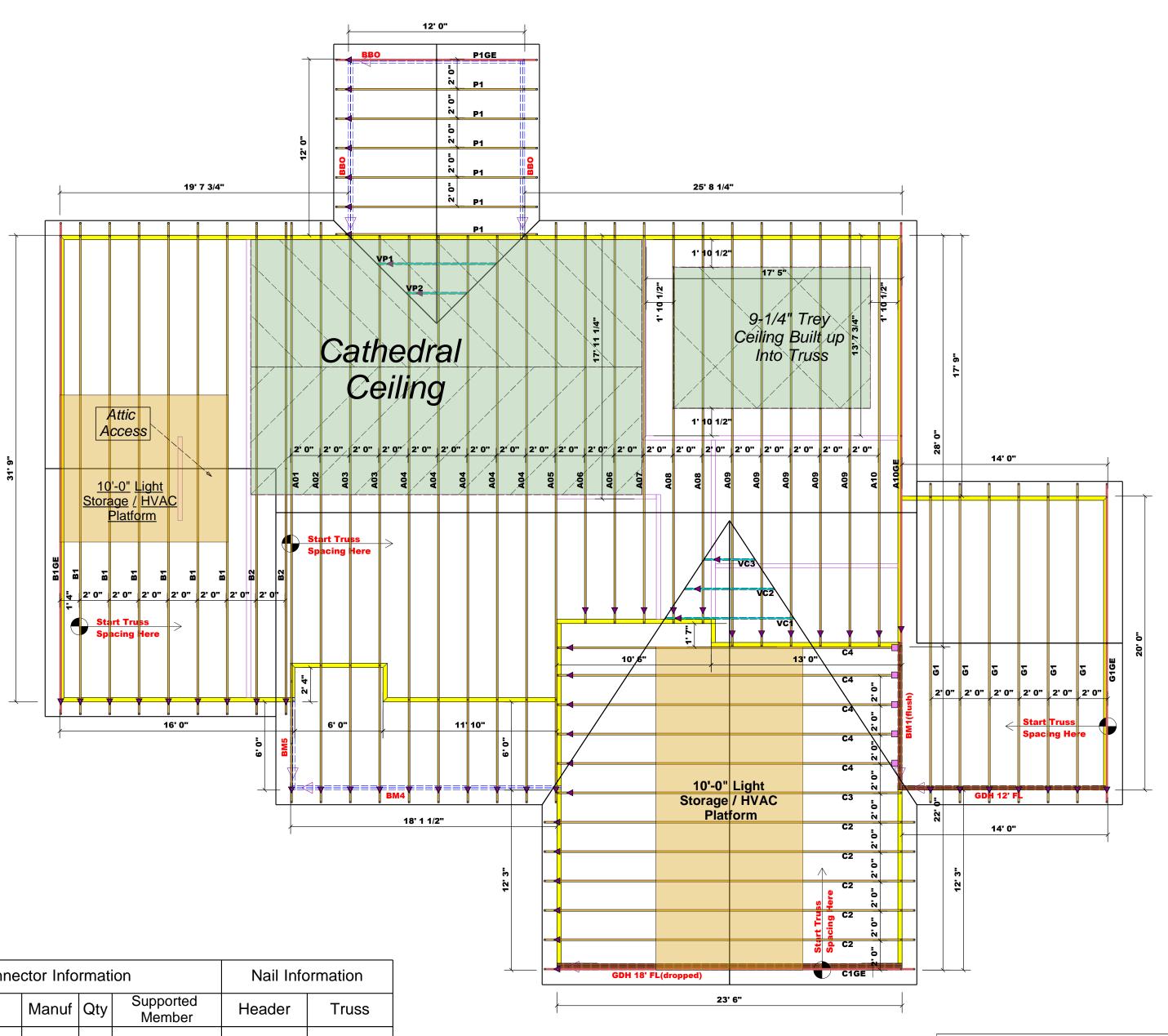
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/28/2028

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







Truss Placement Plan SCALE: 3/16" = 1'-0"

	Conne	ctor Info	rmat	ion	Nail Information		
Sym	Product	Manuf	Qty	Supported Member	Header	Truss	
	HUS28	USP	5		16d/3-1/2	16d/3-1/2"	

	Estir	mation	
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	3750.78
Roof Decking	1st Floor	Roof Decking	129

		BEAM LEGEND			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1(flush)	10-00-08	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH 18' FL(dropped)	23-06-00	1-3/4"x 11-7/8" LVL Kerto-S	3	3	FF
GDH 12' FL	14-00-00	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF

Hatch Legend

= LOAD BEARING WALL HGT. @ 9-1-8

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

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

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

соттесн
ROOF & FLOOR

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

**TRUSSES & BEAMS** 

dearing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables ( derived from the prescriptive Code equirements ) to determine the minimum foundation ize and number of wood studs required to support eactions greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached ables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

Sales Area

Sales Area

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF 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)	i i
1700	1	2550	1	3400	0
3400	2	5100	2	6800	0
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				

evelopment, Inc.	<b>CITY / CO</b> . Harnett Co.	Harnett Co.	13600 15300
est Preserve	ADDRESS		9
Modified	MODEL	Roof	
	DATE REV.	08/2025	
	DRAWN BY	Lenny Norris	
	SALES REP.	SALES REP. Lenny Norris	

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