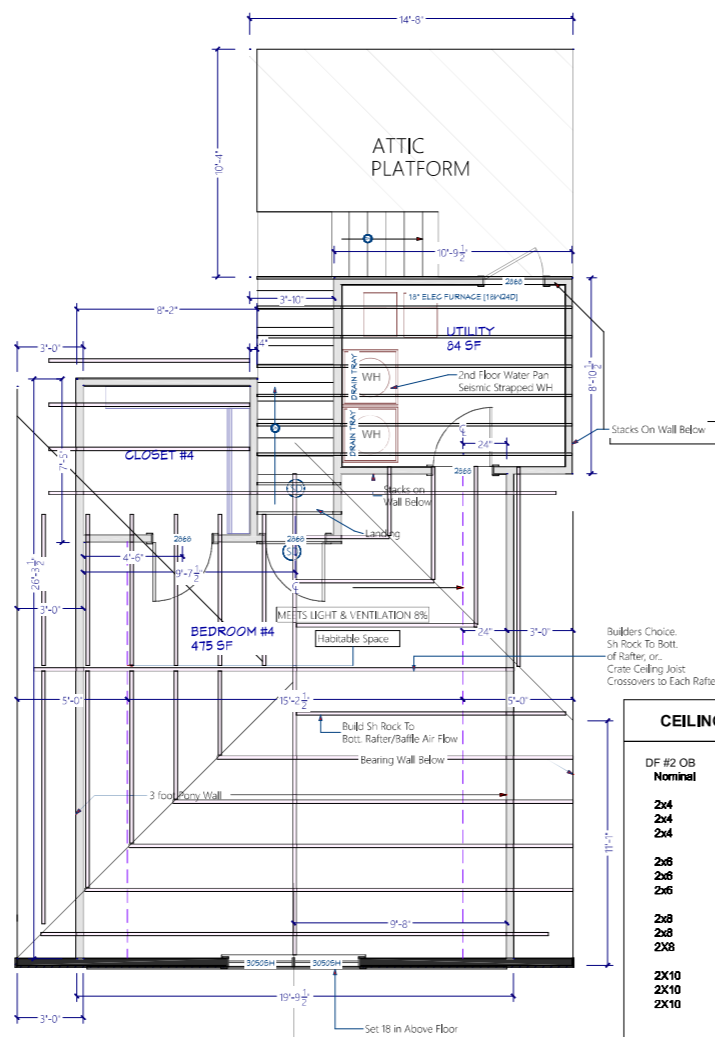


2nd FLOOR PLAN/Dimensions
FRAME CEILING JOIST 2nd

Scale 1/4"=1'-0"

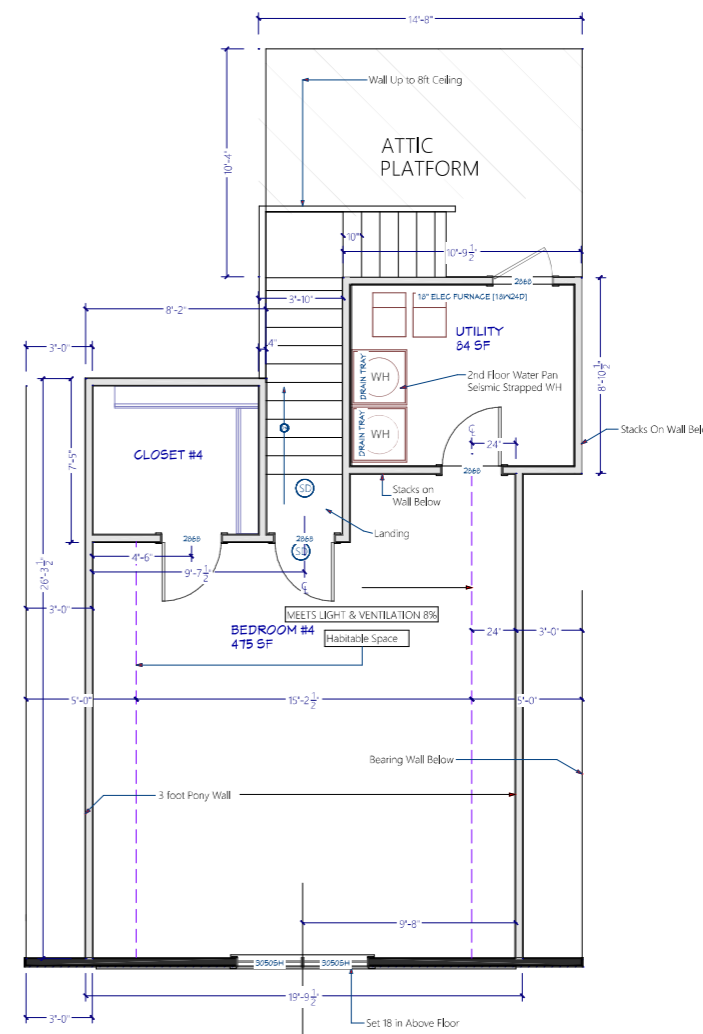


Builder's Choice.
Sh Rock To Bott.
of Rafter, or
Crate Ceiling Joist
Crossovers to Each Rafter.

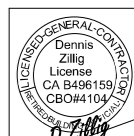
CEILING JOIST SPAN CHART

DF #2 OB Nominal	CC	20PSF LL	10PSF LL
2x4	12"	8'-8"	12'-2"
2x4	16"	8'-8"	11'-0"
2x4	24"	7'-8"	9'-8"
2x6	12"	15'-2"	19'-1"
2x6	16"	13'-8"	17'-4"
2x6	24"	12'-0"	16'-2"
2x8	12"	19'-1"	25'-2"
2x8	16"	18'-2"	22'-10"
2x8	14"	15'-10"	19'-11"
2x10	12"	25'-5"	32'-1"
2x10	16"	23'-2"	29'-2"
2x10	24"	20'-2"	26'-0"

SLAB 2nd FLOOR CEILING JOIST



SLAB 2nd FLOOR AND DIMENSIONS



REVISION TABLE	NUMBER	DATE	REVISION BY	DESCRIPTION

Mr. John Thrower Builder
13157 Remington Rd./Bentonville, Ark
1-(501)291-9455
APN 16-31372-000
APN 16-31373-000

2nd FLOOR PLAN
DIMENSIONS
CEILING FRAME PLAN

DRAWINGS PROVIDED BY:
Mr. Dennis Zillig /CBO
1-(417)214-5187

DATE:

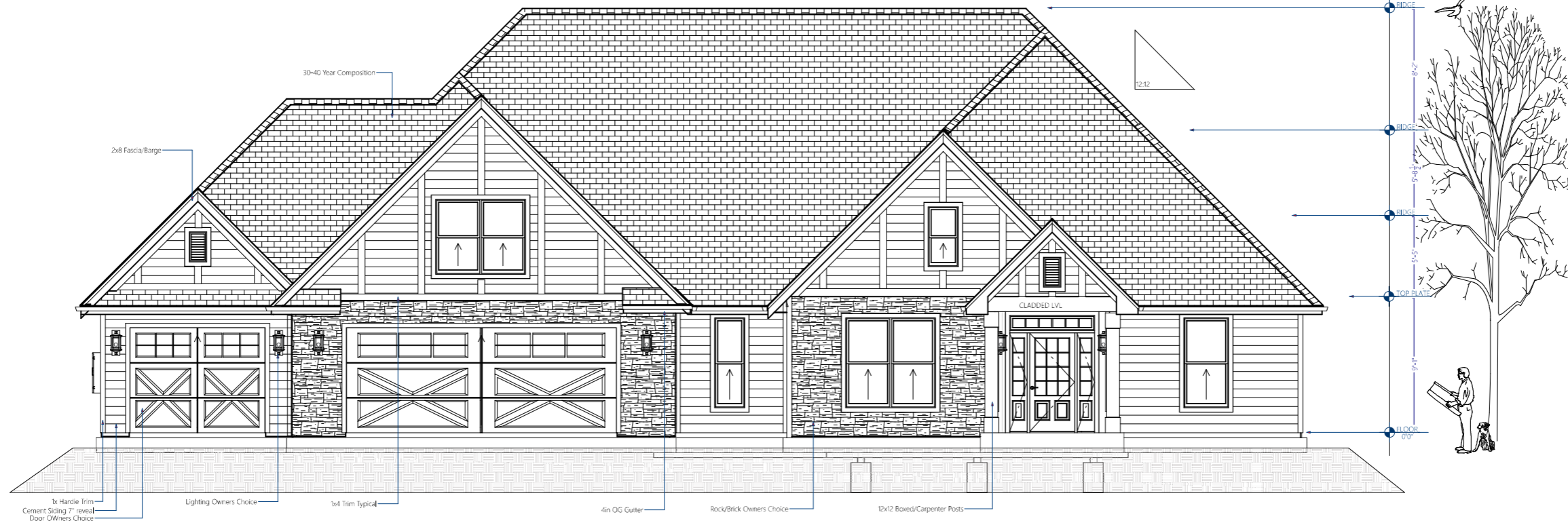
5/10/2023

SCALE:

1/4" = 1'0"

SHEET:

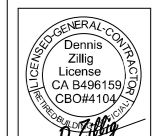
A1.3



ELEVATION FRONT Scale: 1/4"=1'0"



Elevation 2 REAR



REVISION TABLE	REVISION BY	DESCRIPTION
NUMBER	DATE	DESCRIPTION

Mr. John Thrower Builder
 13157 Remington Rd./Bentonville, Ark
 1-(501)291-9455
 APN 16-31372-000
 APN 16-31373-000

ELEVATIONS
 FRONT+REAR

DRAWINGS PROVIDED BY:
 Mr. Dennis Zillig /CBO
 1-(417)214-5187

DATE:

5/10/2023

SCALE:

1/4"=1'0"

SHEET:

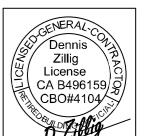
A1.6



Elevation 1 LEFT



SLAB RIGHT ELEVATION



NUMBER	DATE	REVISION	DESCRIPTION

Mr. John Thrower Builder
 13157 Remington Rd./Bentonville, Ark
 1-(501)291-9455
 APN 16-31372-000
 APN 16-31373-000

ELEVATIONS
 LEFT/RIGHT

DRAWINGS PROVIDED BY:
 Mr. Dennis Zillig /CBO
 1-(417)214-5187

DATE:

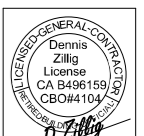
5/10/2023

SCALE:

1/4" = 1'0"

SHEET:

A1.7



REVISION TABLE	REVISION BY	DESCRIPTION
NUMBER	DATE	

Mr. John Thrower Builder
 13157 Remington Rd./Bentonville, Ark
 1-(501)291-9455
 APN 16-31372-000
 APN 16-31373-000

Frame Plan

DRAWINGS PROVIDED BY:
 Mr. Dennis Zillig /CBO
 1-(417)214-5187

DATE: 5/10/2023
 SCALE: 1/4" = 1'0"
 SHEET: S1.1

FRAME 1st Scale 1/4"=1'0"

FRAMING NOTES

- ALL EXTERIOR WALL OPENINGS & BEARING WALL OPENINGS TO HAVE 6X6 HEADERS @ Openings up to 6'-0" Excpn: DBL 2x W/Filler
 Garage Door Use a 5 1/4"x16" LVL
- JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH "SIMPSON" U-210 OR EQUIV.
- PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS OVER PROVIDED FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE IRC 2012 SEC.
- LUMBER SPECIES:
 - A. POST, BEAMS, HEADERS, JOISTS & RAFTERS. NO.2 DOUGLAS FIR., or PINE
 - B. SILLS, PLATES, BLOCKING, BRIDGING ETC. NO. 2 DOUGLAS FIR. OR PINE
 - C. STUDS. STUD GRADE D.F.#2 OB/PINE
 - D. POST & BEAM DECKING. Verify
 - E. PLYWOOD SHEATHING Green Faced ZIPSystem or Equal Green faced PLYWOOD, 7/16" OB
 - F. GLU-LAM BEAMS. Fb-2400, DRY ADH. Roof Decking 7/16"-5/8" Min OSB/ or 5 Ply.
- NAIL SCHEDULE:

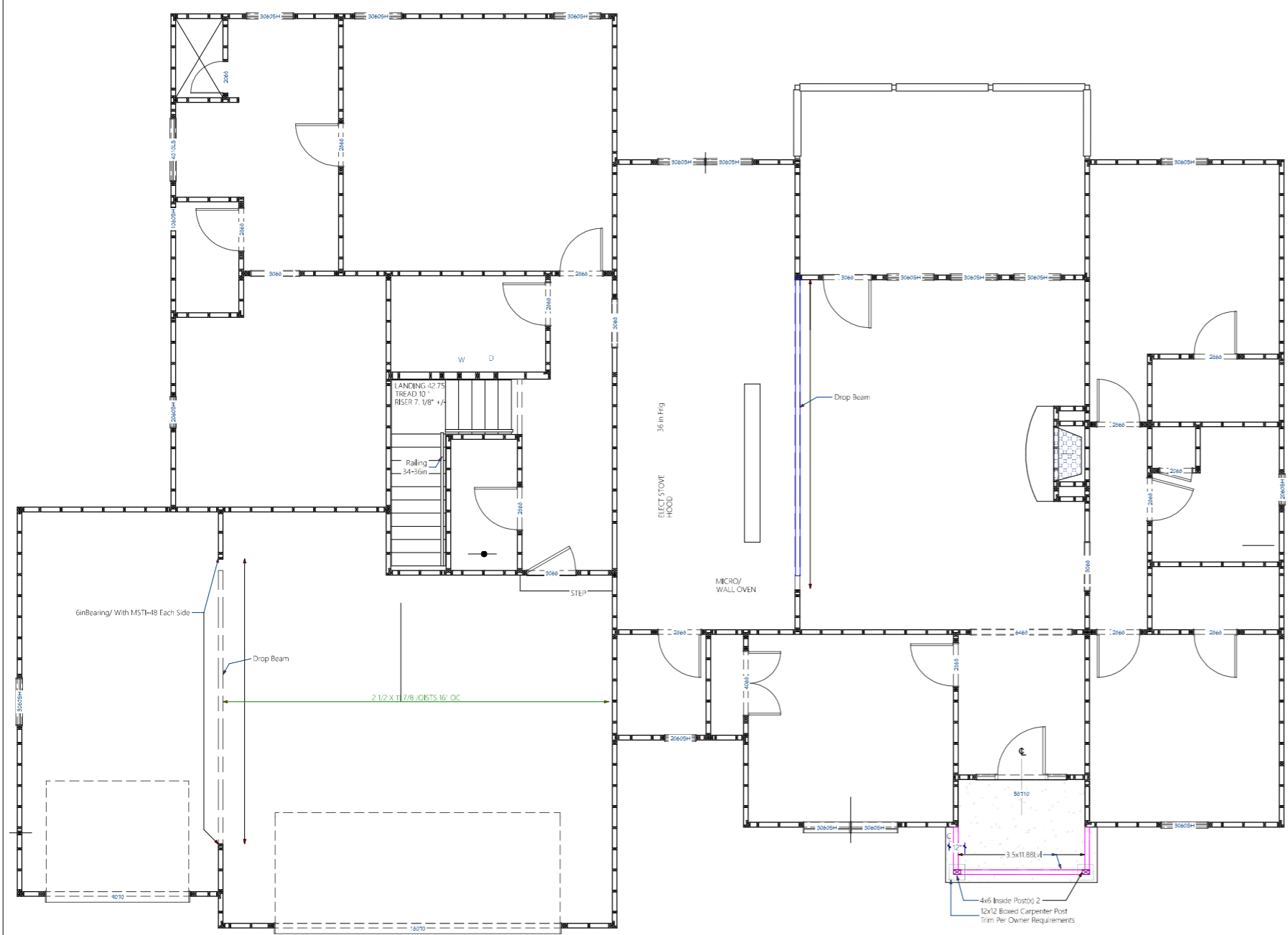
JOIST TO SILL OR GIRDER BRIDGING TO JOIST	3-8d	TOE NAIL
2' SUBFLOOR TO GIRDER	2-8d	TOE NAIL
SOLE PLATE TO JOIST	2-16d	BLIND NAIL
TOP PLATE TO STUDS	16d @ 16"	FACE NAIL
STUD TO SOLE PLATE	2-16d	END NAIL
	4-8d	TOE NAIL OR END NAIL
	2-16d	FACE NAIL
DOUBLE STUDS	16d @ 16"	FACE NAIL
DOUBLE TOP PLATE	16d @ 16"	FACE NAIL
CONTINUOUS HEADER (2 PC.)	16d @ 16"	TOE NAIL
CLG. JST TO PL.	3-8d	FACE NAIL
CLG.JST LAP OVER PL.	3-16d	FACE NAIL
CLG.JST. TO RAFTER	3-16d	TOE NAIL
RAFTER TO TOP PL.	3-8d	FACE NAIL
BUILD-UP CORNER STUDS	16d @ 24"	EDGE NAIL
PLYWOOD SUBFLOOR	8d @ 6"	INTERIOR
	8d @ 12"	EDGE NAIL
	8d @ 6"	INTERIOR
	8d @ 12"	FACE NAIL
	2-16d	STAGGER NAIL
	16d @ 15"	
	1"-BOLTS WWASHERS	
	EA. SIDE @ 24" O.C.	
PLYWOOD & ROOF SHEATHING		
TOP PL. AT INTERSECTIONS		
MULTIPLE JOISTS (UP TO 3)		
MULTIPLE JOISTS (OVER 3)		
1X8 SPACED SHEATHING	2-8d	FACE NAIL

SPAN CHART LUMBER GRADE "Douglas Fir" #2 or Better HEADER & CEILING LOADING

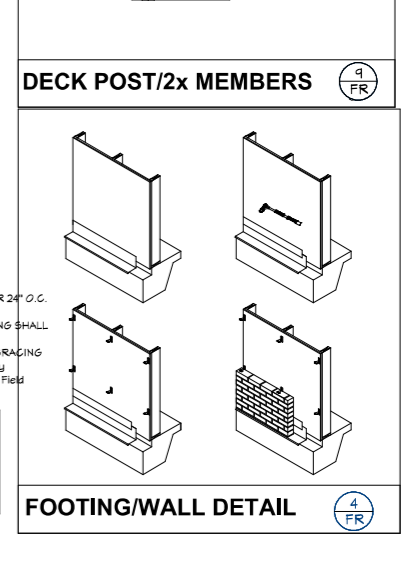
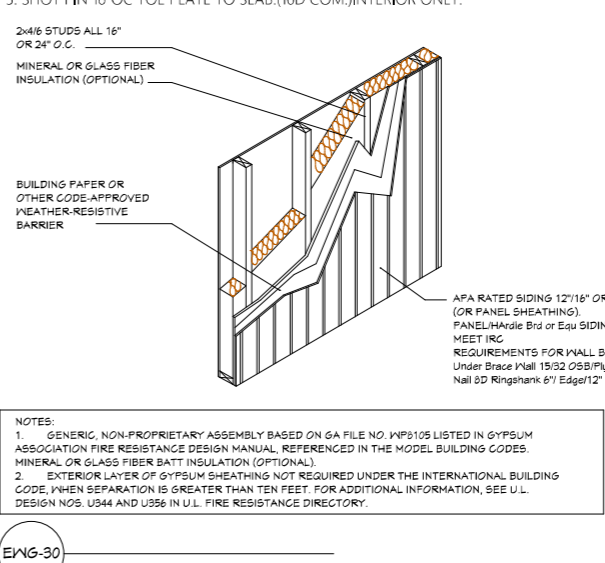
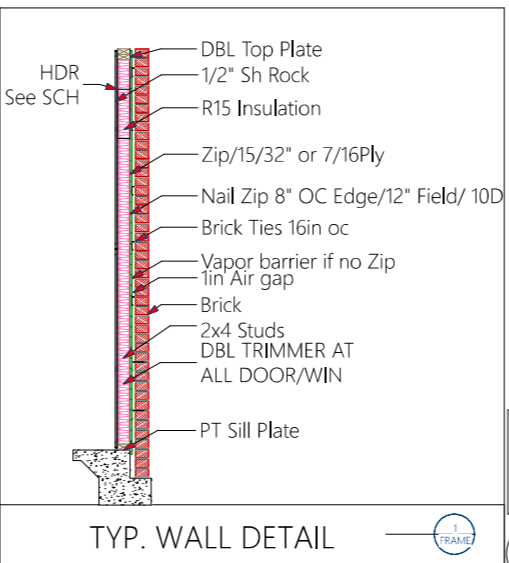
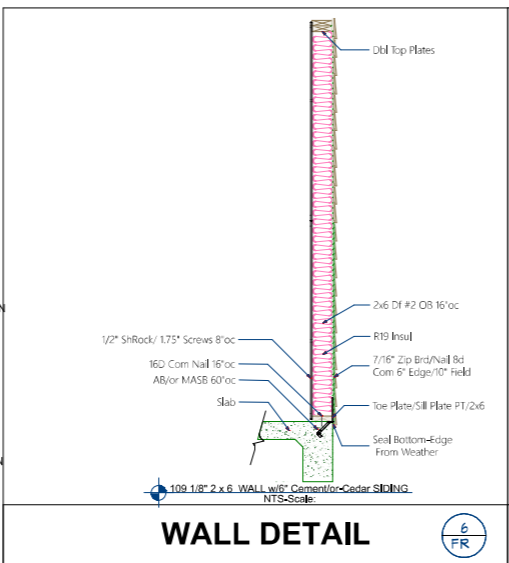
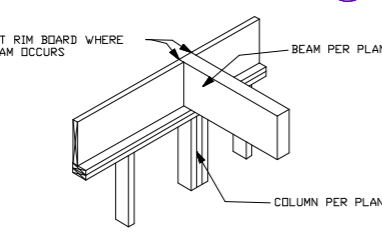
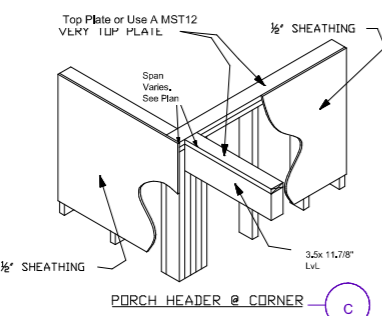
WINDOW/DOOR /2nd FLOOR/GARAGE HEADERS... Max Tributary=20ft DF#2 L240/TJL 24"0"	Opening	2x4" Construction	2x6" Construction (or dble 2x members)
SIZE	Opening	2-2x4(4x4)	2-6x6
		2-2x6(4x6)	2-6x6
		2-2x8(4x8)	2-6x8
		2-2x10(4x10)	2-6x10
		2-2x12(4x12)	2-6x12
		4x14"	
LVL			
20LL/15DL Lvl 18'-3" Spant(5,25x11,25)/(11,78") Roof Only Above	up to 4'-0"		
20LL/15DL Lvl 16'-3" Spant(3,25x11,78") (5,25x11,25 or 14") Roof Only Above	4'-0"-6'-0"		
Lvl 21'0" Span	6'-0"-8'-0"		
20LL/12DL 18'3" Span	8'-0"-10'-0"		
20LL/12DL 22'0" Span	10'-0"-12'-0"		
	12'-span= (3,25x18" or 5,25x16") and 18'span(5,25x16") Floor & Roof Above		
	Use 5,25x20" Lvl. (Special Order)		

Note: Substitutions is Achieved per Equal to Or Greater.
 Spans have Been Engineer Approved/Calculated.

- FRAME NOTES:
- ALL LUMBER DF #2 OB
 - SINGLE TOE PLATE/DBL TOP PLATES
 - A.) FRAME IS 2X4
 - B.) USE 16D COM ALL FRAMED WALLS.
 - C.) LAP TOP PLATES 48IN MIN.
 - INSTALL 7/16 GREEN BRD ZIP TYPE EXT WALLS
 - A.) USE #8 NAIL 6" OC EDGE/100C FIELD.
 - B.) OR/15/32" OSB. TYVECK/8D NAIL(A) ABOVE
 - INSTALL METAL NAIL PLATES AT ALL ROMEX/PIPING
 - SHOT PIN 16"OC TOE PLATE TO SLAB.(16D COM) INTERIOR ONLY.

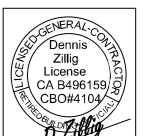


QTY	NOMINAL	LENGTH	MATERIAL	TYPE
2	2X10	80'	FIR FRAMING 2	LUMBER
4	2X6	40'	FIR FRAMING 2	LUMBER
2	2X8	50 1/2'	FIR FRAMING 2	LUMBER
1	3 1/2 X 11 3/16	17'	FIR FRAMING 2	LUMBER
1	3 1/2 X 11 7/8	16"	FIR FRAMING 2	LVL
1	3 1/2 X 12	40"	FIR FRAMING 2-PAINTED COLOR = WHITE	LUMBER
2	3 1/2 X 12	22 1/2'	CEILING-PAINTED SWISSA SETTLEMENT	LUMBER
1	3 1/2 X 16	22"	FIR FRAMING 2	LVL
1	3 1/2 X 20	22"	FIR FRAMING 3	LVL
1	3 1/2 X 19 1/8	37'	FIR FRAMING 2	LUMBER
1	4X2	65'	FIR FRAMING 2	LUMBER
2	4X2	17'	FIR FRAMING 2	LUMBER
1	4X2	17'	2-4" PRESSURE TREATED LUMBER	LUMBER
4	4X2	27'	FIR FRAMING 2	LUMBER
1	4X2	29 1/2'	FIR FRAMING 2	LUMBER
1	4X2	34 3/16'	FIR FRAMING 2	LUMBER
13	4X2	37'	FIR FRAMING 2	LUMBER
1	4X2	38 1/2'	FIR FRAMING 2	LUMBER
1	4X2	38'	FIR FRAMING 2	LUMBER
9	4X2	33'	FIR FRAMING 2	LUMBER
3	4X2	41'	FIR FRAMING 2	LUMBER
1	4X2	51'	FIR FRAMING 2	LUMBER
1	4X2	53'	FIR FRAMING 2	LUMBER
1	4X2	71'	FIR FRAMING 2	LUMBER
3	4X2	75'	FIR FRAMING 2	LUMBER
2	4X6	7'	FIR FRAMING 2	LUMBER
1	4X6	41/8"	BRCH (CHIMNEY)	LUMBER
2	4X6	4"	BRCH (CHIMNEY)	LUMBER
2	4X6	37 1/8"	CEILING-PAINTED SWISSA SETTLEMENT	LUMBER



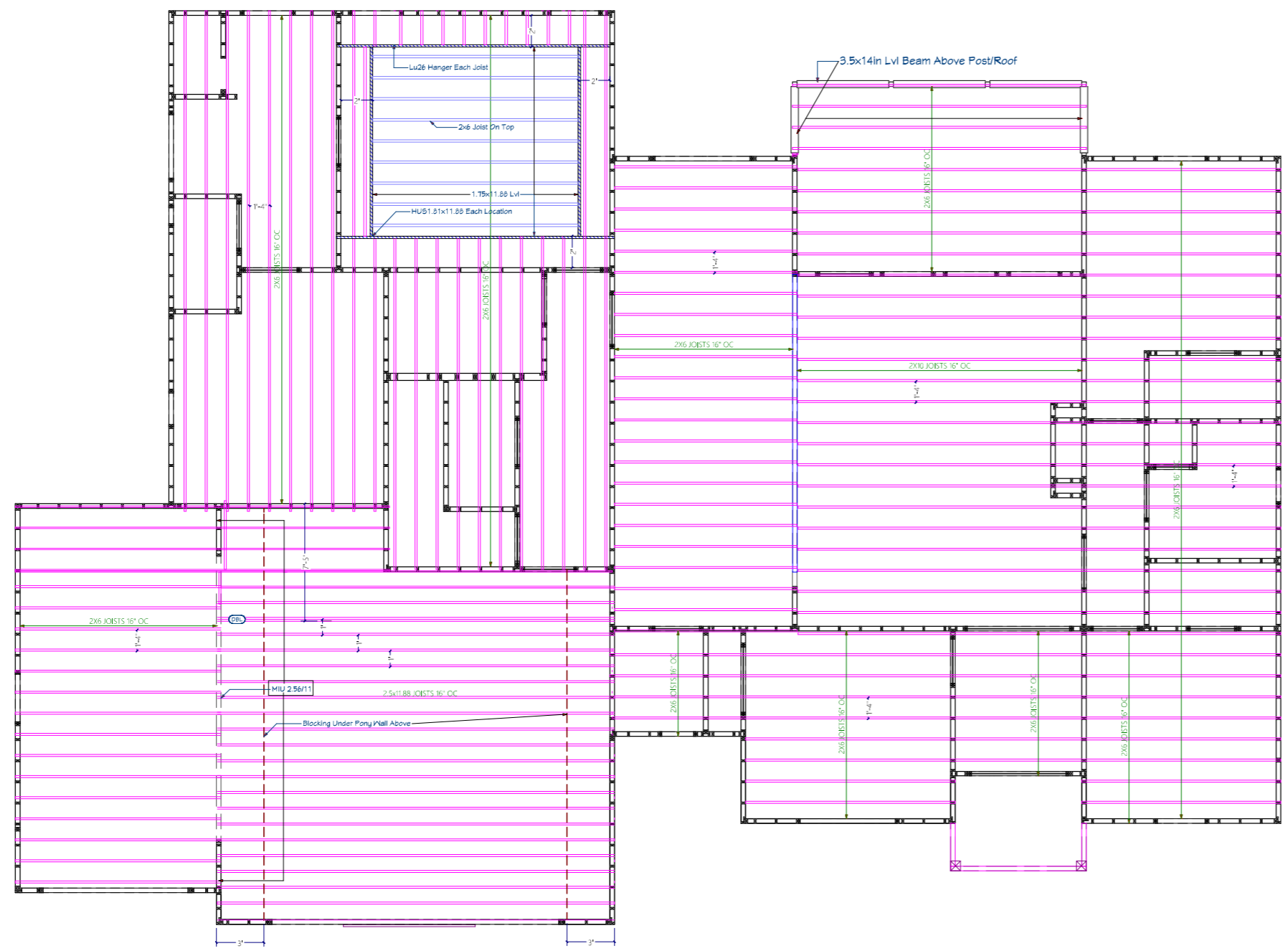
FINAL FOR CONSTRUCTION 5-10-23 1:00 PM

EWG-30

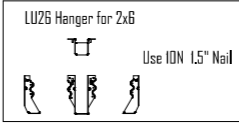


FRAME CEILING JOIST/FLOOR Main Floor

Scale 1/4"=1'-0"



HUS1.8x11.88 or HUS 1.8x11
3/15 # Down
3/15 # Up



CEILING JOIST SPAN CHART

DF #2 OB	CC	20PSF LL	10PSF LL
2x4	12'	9'-6"	12'-2"
2x4	18'	8'-8"	11'-0"
2x4	24'	7'-8"	9'-8"
2x6	12'	15'-2"	19'-1"
2x6	18'	13'-6"	17'-4"
2x6	24'	12'-0"	16'-2"
2x8	12'	19'-1"	25'-2"
2x8	18'	18'-2"	22'-10"
2x8	14'	15'-10"	18'-11"
2X10	12'	25'-0"	32'-1"
2X10	18'	23'-2"	29'-2"
2X10	24'	20'-2"	26'-5"

- Note:
- 2.56x11.88 MIU-Works Well With a Boise 25's Flange Top/Bottom
 - Note the Layouts/ Some Truss Joists have been Reduced to 12" oc.
 - NA
 - NA
 5. Nail 16D Floor Truss To Lvl/Top-Plates/ x 3 each
 6. Glue Down T&G Sheathing.
a.) Nail 6" oc Edges
b.) Nail 12" oc Field.
 7. R-30 In Floor Cavity. (Paper Back).



REVISION TABLE	REVISION BY	DESCRIPTION

Mr. John Thrower Builder
13157 Remington Rd./Bentonville, Ark
1-(501)291-9455
APN 16-31372-000
APN 16-31373-000

Frame Joist Plan

DRAWINGS PROVIDED BY:
Mr. Dennis Zillig /CBO
1-(417)214-5187

DATE: 5/10/2023
SCALE: 1/4"=1'-0"
SHEET: I.2

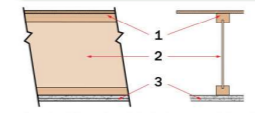
ALLJOIST® Residential Floor Span Tables

About Floor Performance
Homeowner's expectations and opinions vary greatly due to the subjective nature of rating a new floor. Communication with the ultimate user to determine their expectation is critical. Vibration is usually the cause of most complaints. Installing lateral bridging may help; however, squeaks may occur if not installed properly. Spacing the joists closer together does little to affect the perception of the floor's performance. The most common methods used to increase the performance and reduce vibration of wood floor systems is to increase the joist depth, limit joist deflections, glue and screw a thicker, tongue-and-groove subfloor, install the joists vertically plumb with level-bearing supports, and install a direct-attached ceiling to the bottom flanges of the joists.

Joist Depth	All Joist Series	***THREE STAR***				***FOUR STAR***				CAUTION - MINIMUM STIFFNESS ALLOWED BY CODE - CAUTION			
		12'	16'	18.2'	24'	12'	16'	18.2'	24'	12'	16'	18.2'	24'
140	17'-9"	16'-3"	15'-4"	13'-11"	13'-11"	12'-8"	11'-11"	11'-1"	19'-8"	17'-0"	16'-6"	13'-11"	
150	18'-1"	16'-7"	15'-8"	14'-7"	14'-2"	12'-11"	12'-2"	11'-3"	20'-0"	18'-3"	16'-8"	14'-11"	
9 1/2"	20	19'-1"	17'-5"	16'-5"	15'-4"	14'-10"	13'-6"	12'-9"	11'-10"	21'-1"	19'-3"	18'-2"	16'-4"
190	19'-4"	17'-8"	16'-8"	15'-6"	15'-1"	13'-9"	12'-11"	12'-0"	21'-4"	19'-3"	18'-6"	17'-3"	
25	21'-0"	19'-1"	18'-0"	16'-9"	16'-4"	14'-10"	14'-0"	12'-11"	23'-2"	21'-1"	19'-3"	17'-2"	
140	21'-2"	19'-4"	17'-8"	15'-10"	16'-7"	15'-1"	14'-3"	13'-3"	22'-5"	19'-5"	17'-8"	15'-10"	
150	21'-7"	19'-8"	18'-7"	17'-0"	16'-10"	15'-4"	14'-6"	13'-5"	23'-10"	20'-10"	19'-0"	17'-0"	
11 1/2"	20	22'-8"	20'-9"	19'-7"	18'-3"	17'-9"	16'-2"	15'-2"	14'-1"	25'-1"	22'-10"	20'-10"	18'-8"
190	23'-0"	21'-0"	19'-10"	18'-6"	18'-0"	16'-4"	15'-5"	14'-4"	25'-5"	23'-3"	21'-11"	19'-0"	
25	24'-11"	22'-9"	21'-5"	18'-3"	19'-6"	17'-8"	16'-8"	15'-5"	27'-7"	24'-0"	21'-11"	18'-3"	
140	24'-0"	21'-4"	19'-5"	17'-4"	18'-10"	17'-2"	16'-2"	15'-0"	24'-7"	21'-4"	19'-5"	17'-4"	
150	24'-6"	22'-4"	20'-11"	18'-9"	19'-2"	17'-6"	16'-5"	15'-3"	26'-6"	22'-11"	20'-11"	18'-9"	
14"	20	25'-9"	23'-6"	22'-2"	19'-1"	20'-2"	18'-4"	17'-3"	16'-0"	28'-5"	25'-1"	22'-11"	19'-1"
190	26'-1"	23'-10"	22'-6"	19'-1"	20'-5"	18'-7"	17'-6"	16'-3"	28'-10"	26'-4"	23'-11"	19'-1"	
25	28'-4"	25'-10"	22'-11"	18'-4"	22'-1"	20'-1"	18'-11"	17'-6"	30'-5"	26'-4"	22'-11"	18'-4"	
140	28'-8"	22'-11"	20'-11"	18'-9"	20'-10"	19'-0"	17'-11"	16'-0"	26'-0"	22'-11"	20'-11"	16'-9"	
150	27'-1"	24'-7"	22'-5"	19'-3"	21'-3"	19'-4"	18'-3"	16'-11"	28'-5"	24'-7"	22'-5"	19'-3"	
16"	20	28'-6"	26'-0"	24'-2"	19'-3"	22'-4"	20'-4"	19'-1"	17'-9"	31'-3"	27'-0"	24'-2"	19'-3"
190	28'-11"	26'-5"	24'-2"	19'-3"	22'-8"	20'-7"	19'-5"	18'-0"	31'-11"	28'-11"	24'-2"	19'-3"	
25	31'-4"	27'-10"	23'-2"	18'-6"	24'-6"	22'-3"	20'-11"	18'-6"	32'-9"	27'-10"	23'-2"	18'-6"	

Table values based on residential floor loads of 40 psf live load and 10 psf dead load (12 psf dead load for A-US 25 joists).
Table values assume that 3/8" min. plywood/OSB rated sheathing is glued and nailed to joists.
Table values represent the most restrictive of simple or multiple span applications.
Table values are the maximum allowable clear distance between supports. Analyze multiple span joists with BC CALC® sizing software if the length of any span is less than half the length of an adjacent span.
Table values assume minimum bearing lengths without web stiffeners for joist depths of 16" inches and less.

One-Hour Floor/Ceiling Assembly



- FIRE ASSEMBLY COMPONENTS**
- Min. 3/8-inch T&G Wood Structural Panels. A construction adhesive must be applied to the top of the joists prior to placing sheathing. The sheets shall be installed with their long edge perpendicular to the joists with end joints centered over the top flange of joists and staggered one joist spacing with adjacent sheets.
 - A-US Joists at 24" oc. or less.
 - Two layers 1/2" Type C or two layers 5/8" Type X gypsum board.
- SOUND ASSEMBLY COMPONENTS**
When constructed with resilient channels
- Add carpet & pad to fire assembly.
 - Add 3 1/2" glass fiber insulation to fire assembly.
 - Add an additional layer of minimum 1/2" sheathing and 9/16" glass fiber insulation to fire assembly.

See the US version of the Boise Cascade Fire Design & Installation Guide for specific assembly information and other fire resistive options or contact your local Boise Cascade representative.
Boise Cascade EWP - ALLJOIST® Installation Guide - 08/2021

SLAB-FRAME JOISTS -CEILING-FLOOR



ALLOWABLE HOLES - TJI® Joists

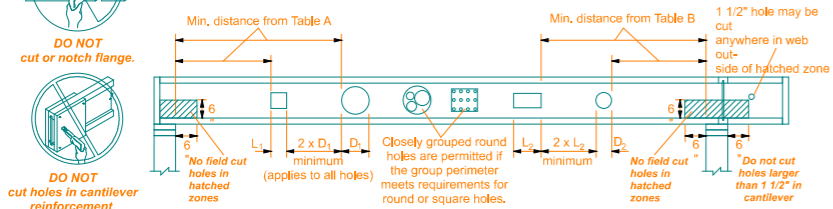


Table A - End Support
Minimum distance from edge of hole to inside face of nearest end support

JOIST DEPTH	TJI®	ROUND HOLE SIZE								SQUARE OR RECTANGULAR HOLE SIZE																														
		2"	3"	4"	5"	6 1/4"	7"	8 5/8"	10 1/4"	2"	3"	4"	5"	6 1/4"	7"	8 5/8"	10 1/4"																							
9 1/2"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
11 7/8"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
14"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
16"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
18"	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"

Table B - Intermediate or Cantilever Support
Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support

JOIST DEPTH	TJI®	ROUND HOLE SIZE								SQUARE OR RECTANGULAR HOLE SIZE																														
		2"	3"	4"	5"	6 1/4"	7"	8 5/8"	10 1/4"	2"	3"	4"	5"	6 1/4"	7"	8 5/8"	10 1/4"																							
9 1/2"	s31	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"							
	s33	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"							
	s47	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"							
11 7/8"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
14"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
16"	s31	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s33	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
18"	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"
	s47	14"	20"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	14"	18"	22"	26"	30"	34"	38"	42"	46"	50"	54"	58"	62"	66"	70"	74"	78"	82"	86"	90"	94"	98"	102"

- Rectangular holes based on measurement of longest side.
- Leave 1/8" of web (minimum) at top and bottom of hole. DO NOT cut joist flanges.
- Tables are based on uniform load tables in current design literature.
- For simple span (5' minimum), uniformly loaded joists used in residential applications, one maximum size round hole may be located at the center of the joist span provided that no other holes occur in the joist.

WARNING

Joists are unstable until braced laterally

Bracing Includes:

- Blocking
- Hangers
- Sheathing
- Rim Board
- Strut Lines
- Rim Joist

DO NOT walk on joists until braced. INJURY MAY RESULT.

DO NOT walk on joists that are lying flat.

DO NOT stack building materials on unshathed joists. Stack only over beams or walls.

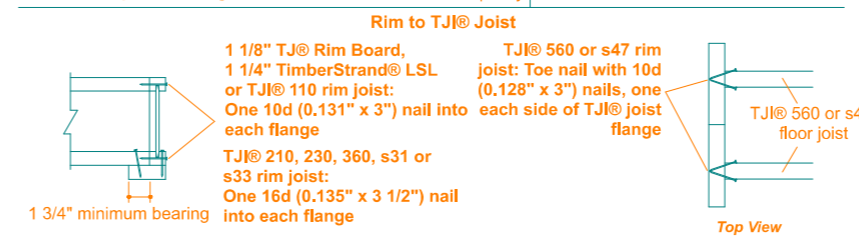
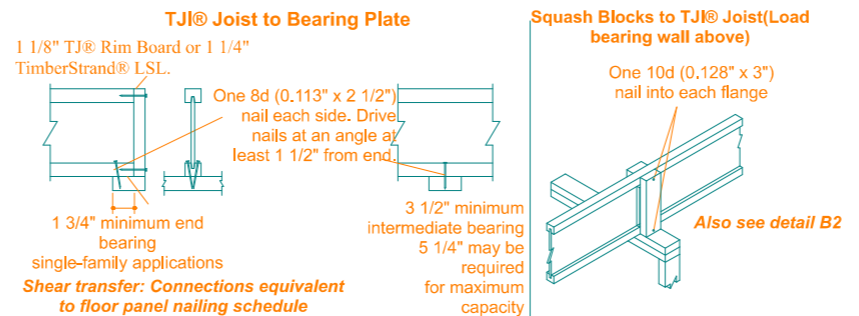
WARNING NOTES:

Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:

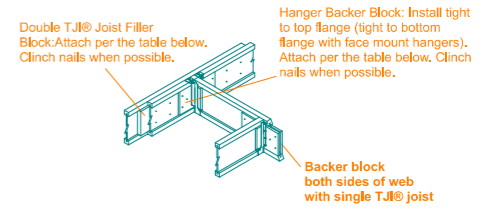
- WARNING: JOISTS ARE UNSTABLE UNTIL BRACED LATERALLY
- BRACING INCLUDES: Blocking, Hangers, Rim Board, Sheathing, Rim Joist, Strut Lines
- Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:
1. Properly install all blocking, hangers, rim boards, and rim joists at TJI® joist end supports.
2. Establish a permanent deck (sheathing), fastened to the first 4 feet of joists at the end of the bay or braced end wall.
3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area and to each joist.
4. Sheathing must be completely attached to each TJI® joist before additional loads can be placed on the system.
5. Ends of cantilevers require safety bracing on both the top and bottom flanges.
6. The flanges must remain straight within 1/2" from true alignment.

FINAL FOR CONSTRUCTION 5-10-23 1:00 PM

NAILING AT BEARING (FLOOR)

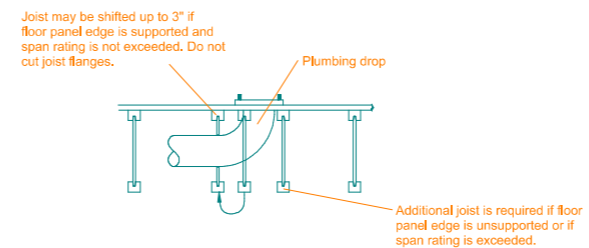


Locate rim board joint between joists.



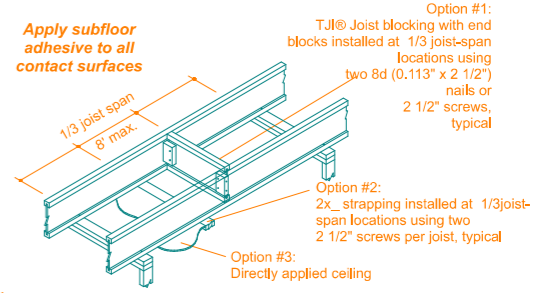
TJI® Depth, D	TJI® Flange Width	Block Type	Nail	
			Size	Quantity
9 1/2" <D<16"	less than 3 1/2"	Filler	10d(0.128" x 3")	10(1)
		Backer	10d(0.128" x 3")	10(1)
	3 1/2"	Filler	16d(0.135" x 3 1/2")	10(1) - each side
		Backer	10d(0.128" x 3")	15
16" <D<20"	3 1/2"	Filler	16d(0.135" x 3 1/2")	15 - each side
		Backer	10d(0.128" x 3")	15
20" <D<24"	3 1/2"	Filler	16d(0.135" x 3 1/2")	25 - each side
		Backer	10d(0.128" x 3")	15

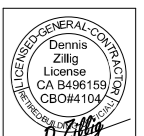
(1) 15 for multi-family applications
With top mount hangers, backer block required only for downward loads exceeding 250 (395 factored) lbs or for uplift conditions. For filler and backer block sizes see Weyerhaeuser Installation Guide for Floor and Roof Framing, TJI-9001.



INSTALLATION TIPS

- Subfloor adhesive will improve floor performance, but may not be required.
- Squash blocks and blocking panels carry stacked vertical loads (details B1 and B2). Packing out the web of a TJI® joist (with web stiffeners) is not a substitute for squash blocks or blocking panels.
- When joists are doubled at non-load bearing parallel partitions, space joists apart the width of the wall for plumbing or HVAC.
- Additional joist at plumbing drop (see detail).





REVISION TABLE	REVISION BY	DESCRIPTION

Mr. John Thrower Builder
 13157 Remington Rd./Bentonville, Ark
 1-(501)291-9455
 APN 16-31372-000
 APN 16-31373-000

BEAM CALC

DRAWINGS PROVIDED BY:
 Mr. Dennis Zillig /CBO
 1-(417)214-5187

DATE:
 5/10/2023
 SCALE:
 1/4" = 1'0"
 SHEET:

S1.4

Wood Beam (LRFD) (version 154) - Floor Girder Created with ClearCalcs.com

Client: John Thrower **Date:** Apr 26, 2023
Author: Dennis Zillig **Job #:** 001
Project: John Thrower Floor Beam/Basement **Subject:** B1 **PASS**
References: NDS 2018 (LRFD)

Summary

33%	Moment Capacity	$\phi M_n = 197,000$ lb-ft
20%	Shear Capacity	$\phi V_n = 46,000$ lb
8%	Governing Bearing Capacity	$\phi R_n = 158,000$ lb
27%	Governing Live / Short-Term Deflection	$\delta_{LT} = -0.249$ in
27%	Governing Live / Short-Term Deflection Ratio	$(L/\delta)_{LT} = 675$
33%	Governing Long-Term Deflection	$\delta_{LT} = -0.329$ in
33%	Governing Long-Term Deflection Ratio	$(L/\delta)_{LT} = 510$

Design Conditions

Design Code for Load Combinations: International Building Code (IBC) 2018

Member Properties

Cross-Sectional Area	$A = 140$ in ²
Strong Axis Moment of Inertia	$I_{xx} = 4670$ in ⁴
Section Modulus	$S = 467$ in ³
Base Allowable Bending Stress	$F_b = 3100$ psi
Base Allowable Shear Stress	$F_v = 285$ psi
Base Perpendicular Compression Allowable Stress	$F_{c\perp} = 750$ psi
True Modulus of Elasticity	$E_{true} = 2,100,000$ psi
Apparent Modulus of Elasticity	$E_{app} = 2,000,000$ psi
Modulus of Elasticity for Deflections	$E = 2,000,000$ psi

Elastic Modulus (NDS 2018 2.3)

Adjusted Modulus of Elasticity $E' = 2,000,000$ psi

Section Bending (NDS 2018 2.3)

Volume Factor $C_V = 0.945$

Positive Bending (NDS 2018 2.3)

Governing Time Effect Factor for Positive Bending $\lambda_t = 0.6$

Governing Beam Stability Factor - Positive Bending $C_L = 0.991$

Adjusted Bending Strength - Positive Bending $F_b^* = 3790$ psi

Negative Bending (NDS 2018 2.3)

Governing Time Effect Factor for Negative Bending $\lambda_t = 0.8$

Governing Beam Stability Factor - Negative Bending $C_L = 0.969$

Adjusted Bending Strength - Negative Bending $F_b^* = 5060$ psi

Shear Design (NDS 2018 3.4)

Governing Time Effect Factor for Shear $\lambda_t = 0.8$

Adjusted Shear Strength $F_v^* = 492$ psi

Bearing (NDS 2018 3.10)

Base Bearing Strength $F_c^*/C_2 = 1130$ psi

Comments

Will require MST Strapping MST148 each Side to Wall Below

Key Properties

Member: 2 plies - 3-1/2x20 Versa-Lam LVL 2.1E-310000
 Beam Plan Length: $L_x = 20$ ft
 Continuous Bracing for Lateral Torsional Buckling: No Continuous Bracing

Loads

Floor Load: 10 psf
 Self-weight: 4.4 psf

Add MST148 each Side

Wood Beam (LRFD) (version 154) - Floor Girder Created with ClearCalcs.com

Client: John Thrower **Date:** Apr 26, 2023
Author: Dennis Zillig **Job #:** 001
Project: John Thrower Floor Beam/Basement **Subject:** B2 copy **PASS**
References: NDS 2018 (LRFD)

Summary

33%	Moment Capacity	$\phi M_n = 197,000$ lb-ft
20%	Shear Capacity	$\phi V_n = 46,000$ lb
8%	Governing Bearing Capacity	$\phi R_n = 158,000$ lb
27%	Governing Live / Short-Term Deflection	$\delta_{LT} = -0.249$ in
27%	Governing Live / Short-Term Deflection Ratio	$(L/\delta)_{LT} = 675$
33%	Governing Long-Term Deflection	$\delta_{LT} = -0.329$ in
33%	Governing Long-Term Deflection Ratio	$(L/\delta)_{LT} = 510$

Design Conditions

Design Code for Load Combinations: International Building Code (IBC) 2018

Member Properties

Cross-Sectional Area	$A = 140$ in ²
Strong Axis Moment of Inertia	$I_{xx} = 4670$ in ⁴
Section Modulus	$S = 467$ in ³
Base Allowable Bending Stress	$F_b = 3100$ psi
Base Allowable Shear Stress	$F_v = 285$ psi
Base Perpendicular Compression Allowable Stress	$F_{c\perp} = 750$ psi
True Modulus of Elasticity	$E_{true} = 2,100,000$ psi
Apparent Modulus of Elasticity	$E_{app} = 2,000,000$ psi
Modulus of Elasticity for Deflections	$E = 2,000,000$ psi

Elastic Modulus (NDS 2018 2.3)

Adjusted Modulus of Elasticity $E' = 2,000,000$ psi

Section Bending (NDS 2018 2.3)

Volume Factor $C_V = 0.945$

Positive Bending (NDS 2018 2.3)

Governing Time Effect Factor for Positive Bending $\lambda_t = 0.6$

Governing Beam Stability Factor - Positive Bending $C_L = 0.991$

Adjusted Bending Strength - Positive Bending $F_b^* = 3790$ psi

Negative Bending (NDS 2018 2.3)

Governing Time Effect Factor for Negative Bending $\lambda_t = 0.8$

Governing Beam Stability Factor - Negative Bending $C_L = 0.969$

Adjusted Bending Strength - Negative Bending $F_b^* = 5060$ psi

Shear Design (NDS 2018 3.4)

Governing Time Effect Factor for Shear $\lambda_t = 0.8$

Adjusted Shear Strength $F_v^* = 492$ psi

Bearing (NDS 2018 3.10)

Base Bearing Strength $F_c^*/C_2 = 1130$ psi

Comments

Will require MST Strapping MST148 each Side to Wall Below

Key Properties

Member: 2 plies - 3-1/2x20 Versa-Lam LVL 2.1E-310000
 Beam Plan Length: $L_x = 20$ ft
 Continuous Bracing for Lateral Torsional Buckling: No Continuous Bracing

Loads

Floor Load: 10 psf
 Self-weight: 4.4 psf

Wood Beam (LRFD) (version 154) - Combination Beam Created with ClearCalcs.com

Client: John Thrower **Date:** Apr 26, 2023
Author: Dennis Zillig **Job #:** 001
Project: John Thrower Floor Beam/Basement **Subject:** B3 **PASS**
References: NDS 2018 (LRFD)

Summary

63%	Moment Capacity	$\phi M_n = 30,700$ lb-ft
47%	Shear Capacity	$\phi V_n = 13,600$ lb
55%	Governing Bearing Capacity	$\phi R_n = 11,800$ lb
67%	Governing Live / Short-Term Deflection	$\delta_{LT} = -0.267$ in
67%	Governing Live / Short-Term Deflection Ratio	$(L/\delta)_{LT} = 538$
51%	Governing Long-Term Deflection	$\delta_{LT} = -0.303$ in
51%	Governing Long-Term Deflection Ratio	$(L/\delta)_{LT} = 475$

Design Conditions

Design Code for Load Combinations: International Building Code (IBC) 2018

Member Properties

Cross-Sectional Area	$A = 41.6$ in ²
Strong Axis Moment of Inertia	$I_{xx} = 488$ in ⁴
Section Modulus	$S = 82.3$ in ³
Base Allowable Bending Stress	$F_b = 2800$ psi
Base Allowable Shear Stress	$F_v = 285$ psi
Base Perpendicular Compression Allowable Stress	$F_{c\perp} = 750$ psi
True Modulus of Elasticity	$E_{true} = 2,100,000$ psi
Apparent Modulus of Elasticity	$E_{app} = 2,000,000$ psi
Modulus of Elasticity for Deflections	$E = 2,000,000$ psi

Elastic Modulus (NDS 2018 2.3)

Adjusted Modulus of Elasticity $E' = 2,000,000$ psi

Section Bending (NDS 2018 2.3)

Volume Factor $C_V = 1$

Positive Bending (NDS 2018 2.3)

Governing Time Effect Factor for Positive Bending $\lambda_t = 0.8$

Governing Beam Stability Factor - Positive Bending $C_L = 0.925$

Adjusted Bending Strength - Positive Bending $F_b^* = 4480$ psi

Negative Bending (NDS 2018 2.3)

Governing Time Effect Factor for Negative Bending $\lambda_t = 0.6$

Governing Beam Stability Factor - Negative Bending $C_L = 0.956$

Adjusted Bending Strength - Negative Bending $F_b^* = 3470$ psi

Shear Design (NDS 2018 3.4)

Governing Time Effect Factor for Shear $\lambda_t = 0.8$

Adjusted Shear Strength $F_v^* = 492$ psi

Bearing (NDS 2018 3.10)

Base Bearing Strength $F_c^*/C_2 = 1130$ psi

Comments

Will require MST Strapping MST148 each Side to Wall Below

Key Properties

Member: 2 plies - 1-3/4x11-7/8 Versa-Lam LVL 2.1E-280000
 Beam Plan Length: $L_x = 12$ ft
 Continuous Bracing for Lateral Torsional Buckling: No Continuous Bracing

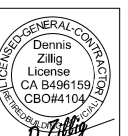
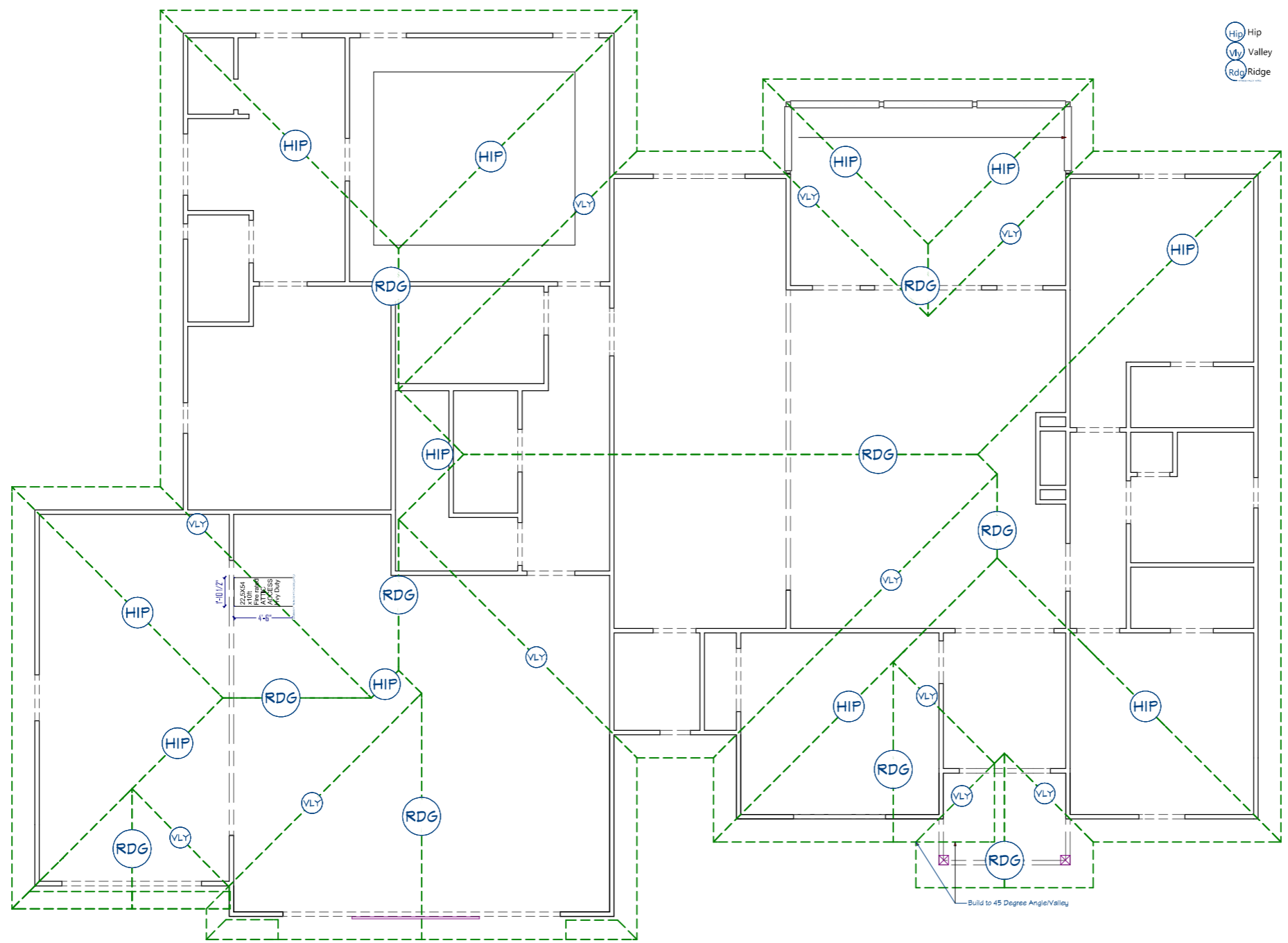
Loads

Floor Load: 10 psf
 Self-weight: 4.4 psf

GREATEST OF TWO BEAMS IS 12 FEET BASEMENT FLOOR ABOVE

FRAME ROOF LAYOUT

Scale 1/4"=1'-0"



REVISION TABLE	NUMBER	DATE	REVISION BY	DESCRIPTION

Mr. John Thrower Builder
 13157 Remington Rd./Bentonville, Ark
 1-(501)291-9455
 APN 16-31372-000
 APN 16-31373-000

ROOF LAYOUT

DRAWINGS PROVIDED BY:
 Mr. Dennis Zillig /CBO
 1-(417)214-5187

DATE:

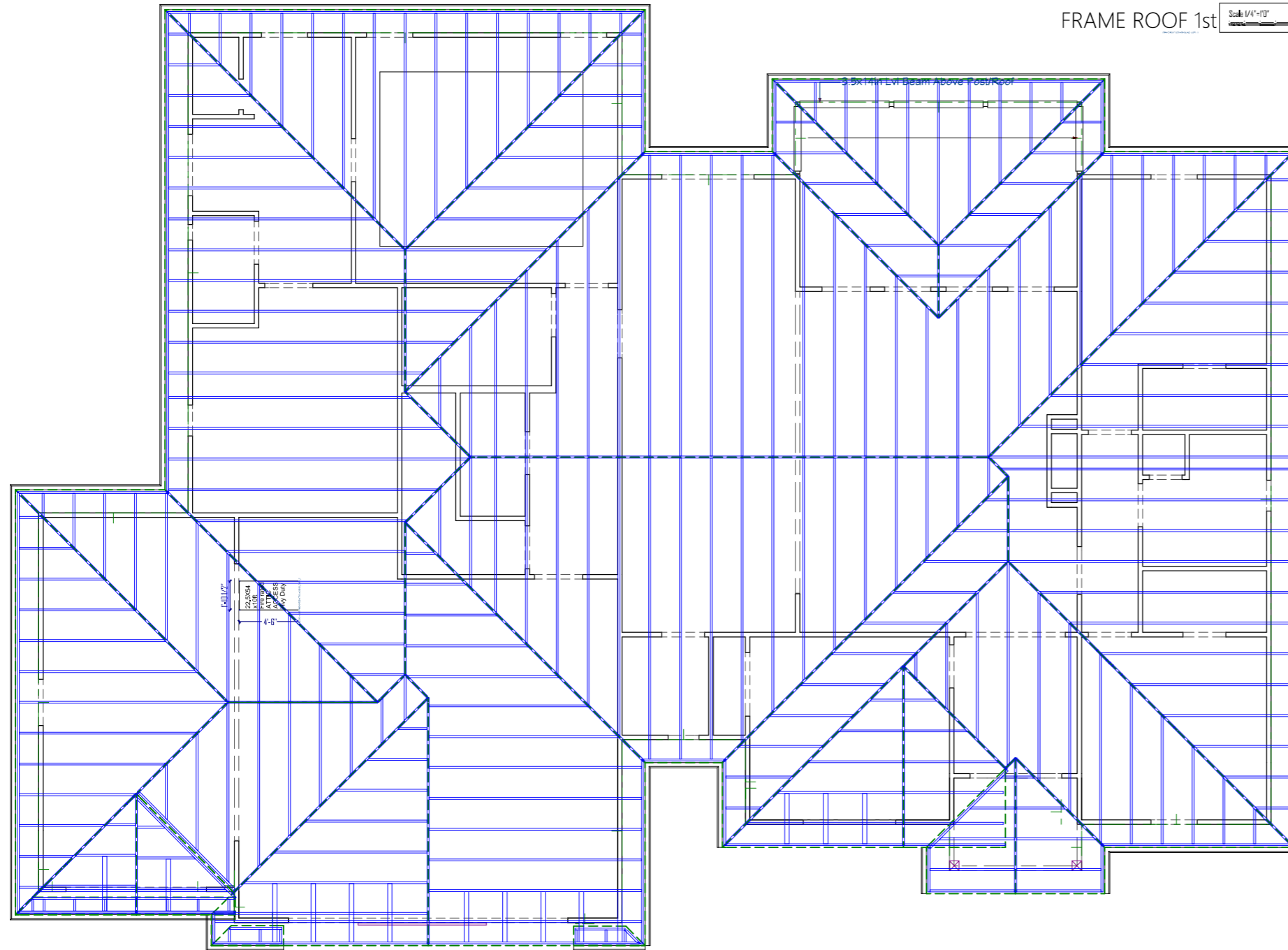
5/10/2023

SCALE:

1/4" = 1'0"

SHEET:

S2.0



FRAME ROOF 1st Scale 1/4" = 1'-0"

1. ALL CONNECTIONS OF RAFTERS, JACK OR HIP RAFTERS TO BE INSTALLED AT PLATE PER A SIMPSON HANGER, H1 OR BETTER.
2. ALL ROOF FRAMING 24" O.C.
3. ALL ROOF PITCH 12:12
4. CEILING PITCH IS DESIGNED PER A BEAM DIRECT TO RAFTER.
5. TRUSSES MANUFACTURED BY [NA]
6. ALL OVERHANGS TO MATCH EXISTING DIMS, (18").
7. USE OF #2 OB, 2x8" or 2x10" See Chart RAFTERS, 24" OC.
8. INSTALL 2x12" Or larger to Fill HIP/RIDGE OF #2 OB.
9. INSTALL 7/16" 5-PLY, or 15/32" OSB ROOF SHEATHING.
10. INSTALL 8x @ 6" oc EDGE.
11. 12" oc FIELD.
12. 15" FELT MIN.
13. ROOFING SHINGLE 30YEAR, OWNERS CHOICE.
14. BOXED EAVE, METAL FIN.
15. 1x8/2x8 FASCIA / METAL WRAP/ GUTTERS OWNERS CHOICE.

ATTIC VENTILATION:
AREA / 300

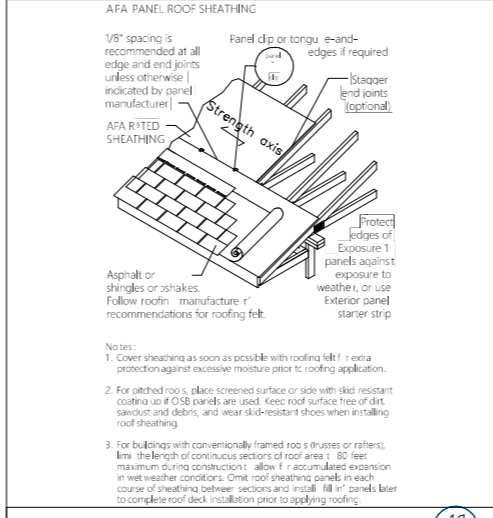
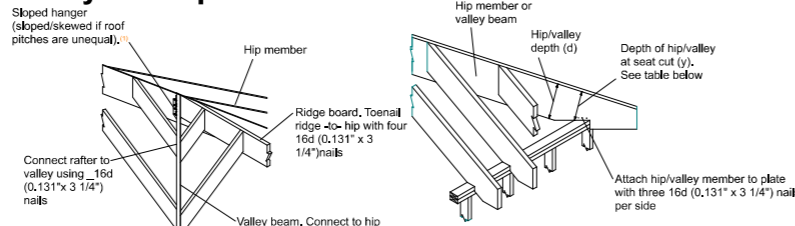
PROVIDE 1" MIN. AIR GAP AT EAVES WITH INSULATION Baffles TYP. AT ALL RFR BAYS.

PROVIDE VENTS ALL RIDGES.

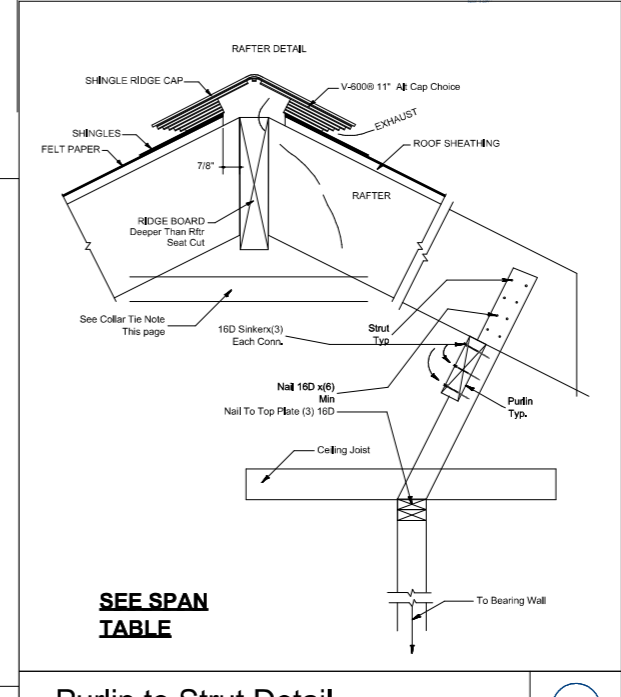
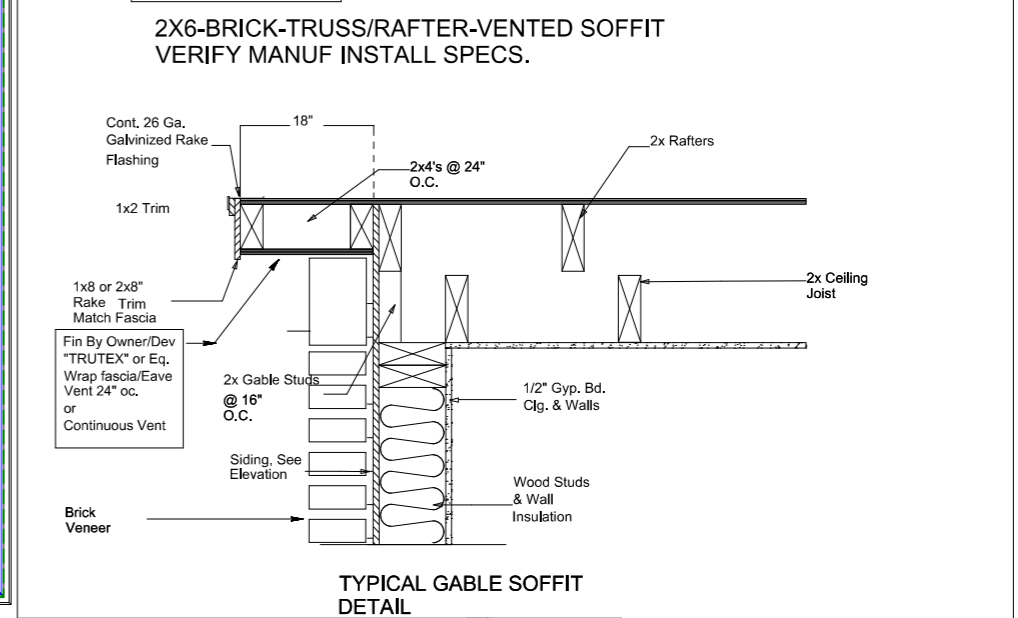
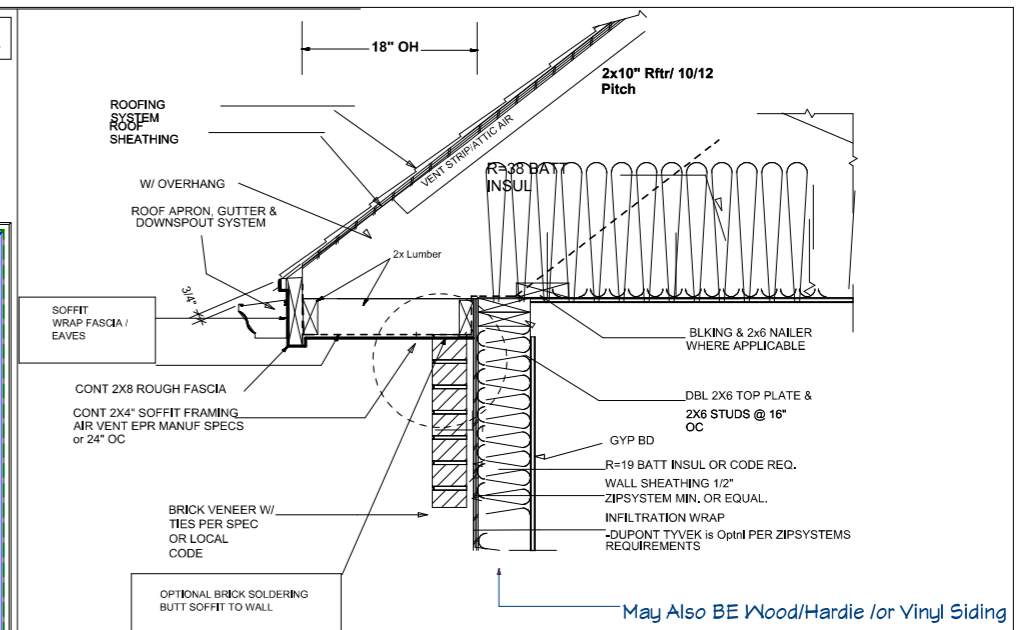
PROVIDE GALV. ROOF VENTS ON BACKSIDE OF ROOF LINE ABOVE CONDITIONED AREA.

- ROOF NOTES:**
1. ALL CONNECTIONS OF RAFTERS, JACK OR HIP RAFTERS TO BE INSTALLED AT PLATE PER A SIMPSON HANGER, H1 OR BETTER.
 2. ALL ROOF FRAMING 24" O.C.
 3. ALL ROOF PITCH 12:12
 4. CEILING PITCH IS DESIGNED PER A BEAM DIRECT TO RAFTER.
 5. TRUSSES MANUFACTURED BY [NA]
 6. ALL OVERHANGS TO MATCH EXISTING DIMS.

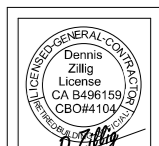
Valley -to- Hip Connection



ROOF DETAIL GENERIC



Purlin to Strut Detail



REVISION TABLE	REVISION BY	DESCRIPTION

Mr. John Thrower Builder
13157 Remington Rd./Bentonville, Ark
1-(501)291-9455
APN 16-31372-000
APN 16-31373-000

FRAME ROOF PLAN

DRAWINGS PROVIDED BY:
Mr. Dennis Zillig /CBO
1-(417)214-5187

DATE:
5/10/2023

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

SHEET:
S2.1

3 Framing and Clearances

A. Appliance/Decorative Front Dimension Diagrams

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.

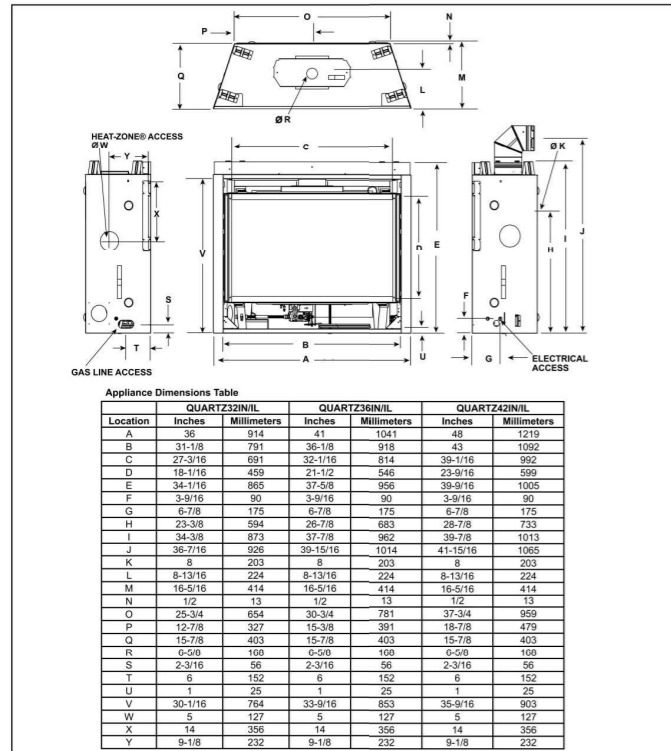
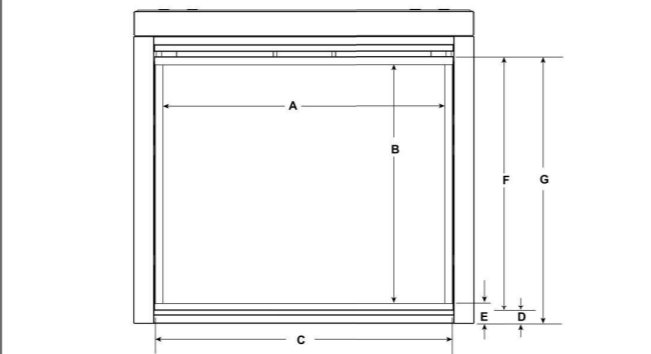


Figure 3.1 Appliance Dimensions
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

STANDARD DECORATIVE FRONT



Model	A	B	C	D	E	F	G
QUARTZ32IN/IL SRV2401-021	in. 28-7/8	25-1/8	31	1-5/8	2-5/8	27-1/8	28-3/4
	mm 733	638	787	41	67	689	730
QUARTZ36IN/IL DBM36BK	in. 34	28-3/4	35-15/16	1-5/8	2-5/8	30-5/8	32-1/4
	mm 864	730	913	41	67	778	819
QUARTZ42IN/IL DBM42BK	in. 40-7/8	30-5/8	43	1-5/8	2-5/8	32-5/8	34-1/4
	mm 1038	778	1092	41	67	829	870

Figure 3.2 Decorative Front Dimensions - Firescreen
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

B. Chimney Diagram

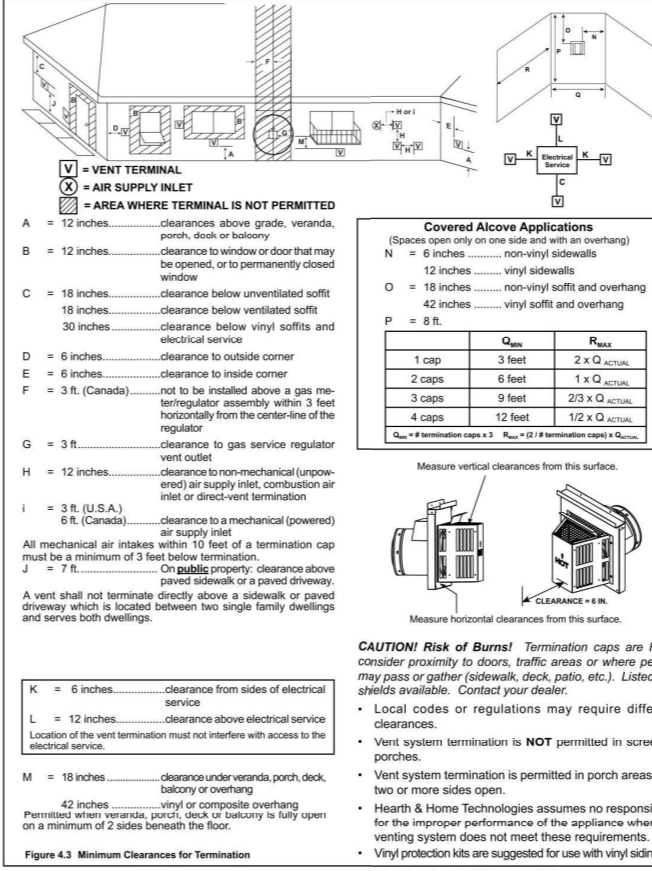


Figure 3.3 Minimum Clearances for Termination
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

Constructing the Appliance Chase

Chase is a vertical box-like structure built to enclose the appliance and/or its vent system. In cooler climates vent should be enclosed inside the chase.

TICE: Treatment of ceiling firestops and wall shield stops and construction of the chase may vary with the requirements of local building codes. Therefore, MUST check local building codes to determine the requirements for these steps.

TICE: When installing a sprinkler head in a fireplace, it is recommended to use a sprinkler head with a higher activation temperature classified as Extra High. Sprinkler head away from vent and chimney.

Chases should be constructed in the manner of all other walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Is, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for rest of the home. Additionally, in regions where cold infiltration may be an issue, the inside surfaces may be stroked and taped (or an equivalent method may be used) to achieve maximum air tightness.

Further prevent drafts, the wall shield and ceiling firestops should be caulked with caulk with a minimum of 1/2" continuous exposure rating to seal gaps. Gas holes and other openings should be caulked with a minimum of 300 °F continuous exposure rating caulk on a cement surface, a layer of plywood may be used underneath to prevent conducting cold up into the chase.

B. Clearances to Combustibles

When selecting a location for the appliance it is important to consider the required clearances to walls. See Figure 3.3.

WARNING! Risk of Fire or Burns! Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

NOTICE: Illustrations reflect typical installations and are not drawn to scale. Actual installation may vary due to individual design preference.

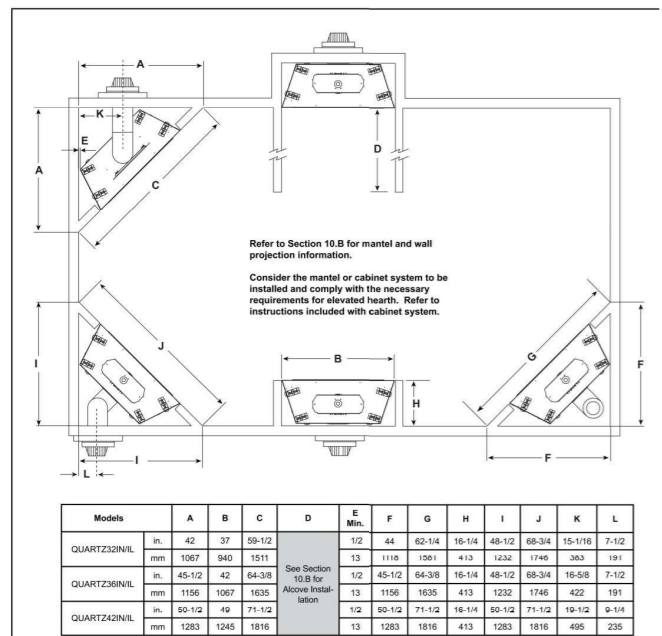


Figure 3.3 Appliance Locations
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

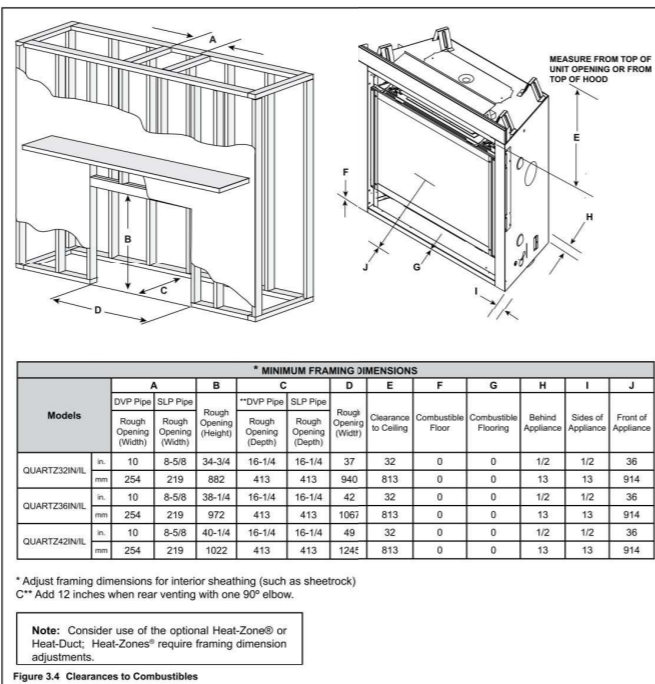


Figure 3.4 Clearances to Combustibles
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

4 Termination Location and Vent Information

A. Vent Termination Minimum Clearances

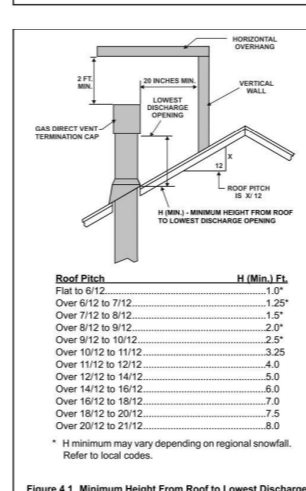
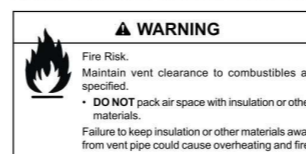
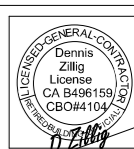


Figure 4.1 Minimum Height from Roof to Lowest Discharge Opening
Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19



REVISION TABLE	REVISION BY	DESCRIPTION
NUMBER DATE		

Mr. John Thrower Builder
13157 Remington Rd./Bentonville, Ark
1-(501)291-9455
APN 16-31372-000
APN 16-31373-000

Majestic • QUARTZ32, QUARTZ36, QUARTZ42 Installation Manual • 2412-980 Rev. Q • 3/19

Fire Place Details

DRAWINGS PROVIDED BY:
Mr. Dennis Zillig /CBO
1-(417)214-5187

DATE:

5/10/2023

SCALE:

1/4"=1'0"

SHEET:

MISC