

Obtaining a permit for a Best Barns DIY home kit

Local permitting authorities will likely require documents to be submitted to obtain a permit. The homeowner's first step is to contact their local code office and ask what is needed for the model and size of building to be purchased.

The documentation to be submitted likely will include the following items.*

- Elevations showing at least two sides of structure
- Site plan showing existing structures and proposed build site
- Engineered drawings for truss system indicating snow and wind load ratings**
- Drawings indicating entrance and egress and window locations
- Drawings providing mechanical specifications for wiring, plumbing and HVAC
- Drawings showing interior walls
- Cross sections of wall framing and foundation

Permit requirements vary based on location. Some areas may not require a permit at all. The documents provided by Best Barns are intended to help the homeowner with the permit process but do not guarantee a permit will be issued. It is the homeowner's responsibility to determine if a permit is required and submit the necessary documentation.

This document provides a subset of the drawings to be submitted. Upon purchase a full set of drawings will be provided which can be presented to your local permitting authority. ***

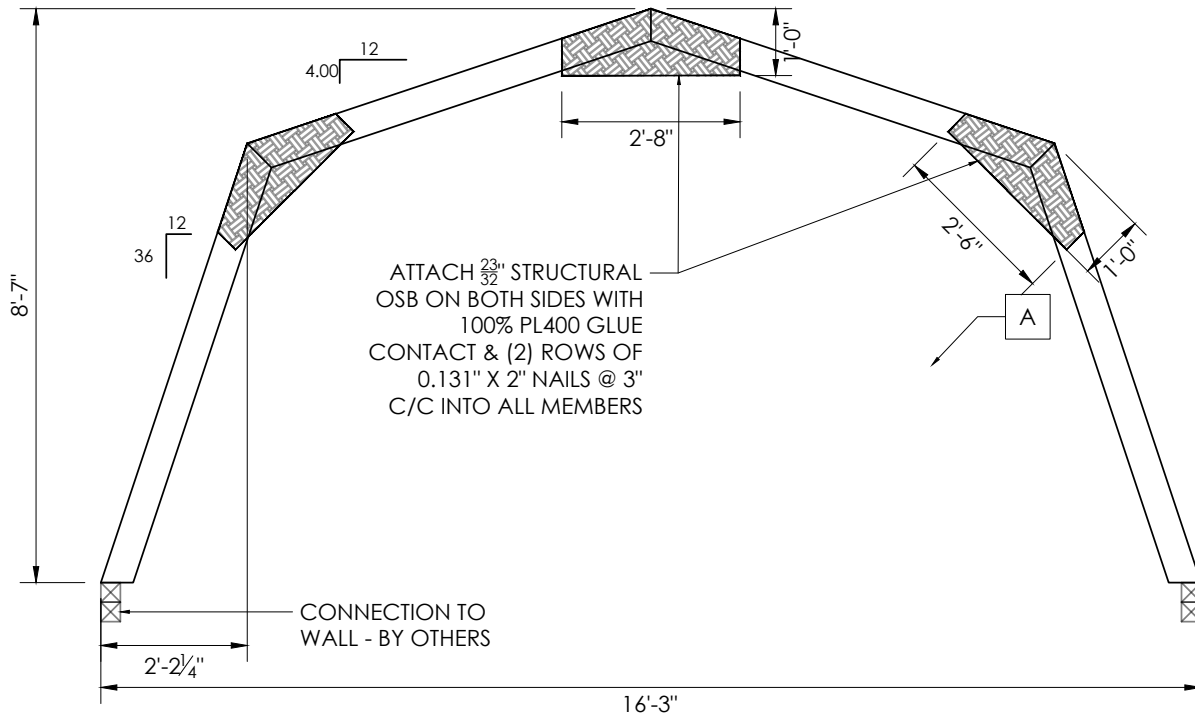
* Additional documentation may be required by the building code authority. Such documentation is the homeowners responsibility to produce.

** After purchasing a home kit from Best Barns stamped drawings for your state will be issued. These drawings include snow and wind load ratings for the truss systems and load limits for the 2nd floor.

*** Certain states such as Florida and California have stringent requirements for obtaining a permit. Depending on your location, a civil engineer's services may be required to provide necessary documents not provided by Best Barns. These services are the homeowner's responsibility to obtain from an engineer within the state of build location.

Any questions concerning this process please call Best Barns at

800-245-1577 or email questions@barnkits.com



DESIGN CRITERIA

INTERNATIONAL BUILDING CODE
IBC 2021, IBC 2018, IBC 2015 DESIGN CRITERIA

DEAD LOAD (D):

ROOF COLLATERAL DEAD LOAD 2.5 PSF

LIVE LOAD (Lr):

ROOF LIVE LOAD 20 PSF

SNOW LOAD (S):

GROUND SNOW LOAD 45 PSF
SNOW LOAD IMPORTANCE FACTOR (Is) 1.0
EXPOSURE FACTOR (Ce) 1.0
THERMAL FACTOR (Ct) 1.1
GOVERNING ROOF SNOW LOAD 34.65 PSF

UNBALANCED SNOW LOAD 45 PSF

WIND (W):

ANALYSIS PROCEDURE: ASCE 7-10 / ASCE 7-16
BASIC WIND SPEED: 130 MPH
EXPOSURE CATEGORY: C

LOAD COMBINATIONS:

1.0 D
1.0 D + 1.0 L
1.0 D + 1.0 (Lr or S)
1.0 D + 0.75 L + 0.75 (Lr or S)
1.0 D + (0.6 W)
1.0 D + 0.75 (1.0 W) + 0.75 L + 0.75 (Lr or S)
0.6 D + 1.0 W

NOTES:

- UNBALANCED SNOW LOADS HAVE BEEN CONSIDERED IN THE DESIGN.
- WIND LOADING IS BASED ON 3-S GUST ULTIMATE WIND SPEED, EXPOSURE C, PER ASCE 7.
- LOADS ARE BASED ON RISK CATEGORY II.
- SEE ADDITIONAL SHEETS FOR MEMBER CHECKS.

DESIGN DETAILS

A - TOP CHORD	2X6
B - BOTTOM CHORD	-
C - WEB	2X4
D - COLLAR-TIE	-
SPACING	24" C/C
WOOD MATERIAL	SPF NO. 2
MAX. UNBRACED LENGTH OF TOP CHORD	3'-3 $\frac{3}{16}$ "
DEAD LOAD DEFLECTION	L / 180
LIVE LOAD DEFLECTION	L / 240
DEAD + LIVE LOAD DEFLECTION	L / 180
UPLIFT REACTION AT CONN. TO WALL (LBF)	135
LATERAL REACTION AT CONN. TO WALL (LBF)	285
BEARING REACTION AT CONN. TO WALL (LBF)	598

WOOD DESIGN NOTES:

C _D - LOAD DURATION FACTOR FOR WIND	1.6
C _D - LOAD DURATION FACTOR FOR SNOW	1.15
C _M - MOISTURE CONTENT	1.0
C _t - TEMPERATURE FACTOR	1.0

CERTIFICATION EXPIRY: XX/XX/XXXX
STAMP DATE EXPIRES: XX/XX/XXXX
DATE SIGNED: XX/XX/XXXX

DESIGN BY / CHECKED BY:
A.W. / O.A.

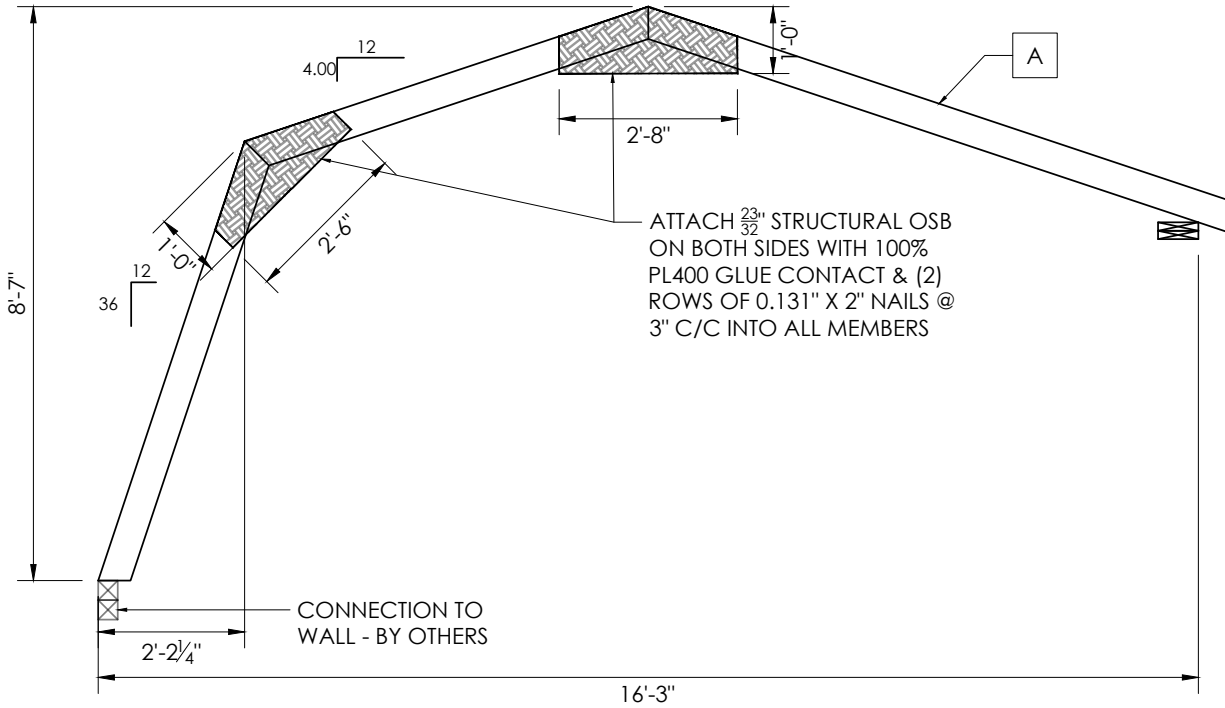
PROJECT NO.:
476-23-0575

CLIENT:
BEST BARNS

TITLE:
TIMBER TRUSS

STATE:
XX - XXXXXXXXXXXX

DATE:
01/24/2024



ATTACH $\frac{23}{32}$ " STRUCTURAL OSB ON BOTH SIDES WITH 100% PL400 GLUE CONTACT & (2) ROWS OF 0.131" X 2" NAILS @ 3" C/C INTO ALL MEMBERS

DESIGN BY / CHECKED BY: A.W. / O.A.
 PROJECT NO.: 476-23-0575
 CLIENT: BEST BARNES
 TITLE: TIMBER TRUSS
 STATE: XX - XXXXXXXXXXXX
 DATE: 01/24/2024

DESIGN CRITERIA

INTERNATIONAL BUILDING CODE
 IBC 2021, IBC 2018, IBC 2015 DESIGN CRITERIA

DEAD LOAD (D):

ROOF COLLATERAL DEAD LOAD 2.5 PSF

LIVE LOAD (Lr):

ROOF LIVE LOAD 20 PSF

SNOW LOAD (S):

GROUND SNOW LOAD 45 PSF
 SNOW LOAD IMPORTANCE FACTOR (Is) 1.0
 EXPOSURE FACTOR (Ce) 1.0
 THERMAL FACTOR (Ct) 1.1
 GOVERNING ROOF SNOW LOAD 34.65 PSF

UNBALANCED SNOW LOAD 45 PSF

WIND (W):

ANALYSIS PROCEDURE: ASCE 7-10 / ASCE 7-16
 BASIC WIND SPEED: 130 MPH
 EXPOSURE CATEGORY: C

LOAD COMBINATIONS:

- 1.0 D
- 1.0 D + 1.0 L
- 1.0 D + 1.0 (Lr or S)
- 1.0 D + 0.75 L + 0.75 (Lr or S)
- 1.0 D + (0.6 W)
- 1.0 D + 0.75 (1.0 W) + 0.75 L + 0.75 (Lr or S)
- 0.6 D + 1.0 W

NOTES:

1. UNBALANCED SNOW LOADS HAVE BEEN CONSIDERED IN THE DESIGN.
2. WIND LOADING IS BASED ON 3-S GUST ULTIMATE WIND SPEED, EXPOSURE C, PER ASCE 7.
3. LOADS ARE BASED ON RISK CATEGORY II.
4. SEE ADDITIONAL SHEETS FOR MEMBER CHECKS.

DESIGN DETAILS

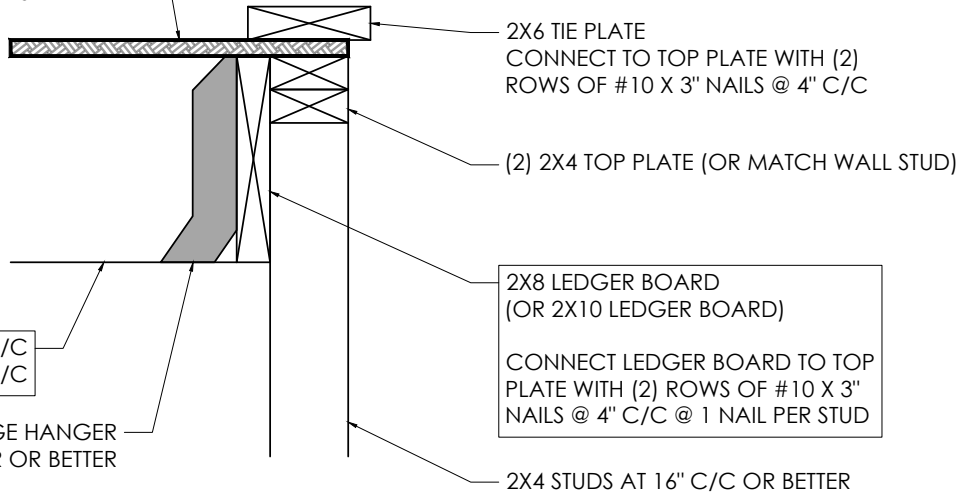
A - TOP CHORD	2X6
B - BOTTOM CHORD	-
C - WEB	-
D - COLLAR-TIE	-
SPACING	24" C/C
WOOD MATERIAL	SPF NO. 2
MAX. UNBRACED LENGTH OF TOP CHORD	4'-10 $\frac{7}{8}$ "
DEAD LOAD DEFLECTION	L / 180
LIVE LOAD DEFLECTION	L / 240
DEAD + LIVE LOAD DEFLECTION	L / 180
UPLIFT REACTION AT CONN. TO WALL (LBF)	332
LATERAL REACTION AT CONN. TO WALL (LBF)	264
BEARING REACTION AT CONN. TO WALL (LBF)	566

WOOD DESIGN NOTES:

C _D - LOAD DURATION FACTOR FOR WIND	1.6
C _D - LOAD DURATION FACTOR FOR SNOW	1.15
C _M - MOISTURE CONTENT	1.0
C _t - TEMPERATURE FACTOR	1.0

CERTIFICATION EXPIRY: XX/XX/XXXX
STAMP DATE EXPIRES: XX/XX/XXXX
DATE SIGNED: XX/XX/XXXX

$\frac{23}{32}$ " T&G OSB SUBFLOOR
 CONNECT OSB SUBFLOOR MIN. 4'-0"
 WIDTH TO FLOOR JOIST WITH 1 ROW OF
 #10 X 3" NAILS @ 4" C/C @ BLOCKING
 LOCATIONS & 6" C/C ELSEWHERE



2X8 DF-LAR. NO. 1 @ 12" C/C
 2X10 DF-LAR. NO. 1 @ 16" C/C

2X8 TOP FLANGE HANGER
 OR SIMPSON LU24 HANGER OR BETTER

2X6 TIE PLATE
 CONNECT TO TOP PLATE WITH (2)
 ROWS OF #10 X 3" NAILS @ 4" C/C

(2) 2X4 TOP PLATE (OR MATCH WALL STUD)

2X8 LEDGER BOARD
 (OR 2X10 LEDGER BOARD)
 CONNECT LEDGER BOARD TO TOP
 PLATE WITH (2) ROWS OF #10 X 3"
 NAILS @ 4" C/C @ 1 NAIL PER STUD

2X4 STUDS AT 16" C/C OR BETTER

DESIGN BY / CHECKED BY:
 A.W. / O.A.

PROJECT NO.:
 476-23-0575

CLIENT:
 BEST BARN

TITLE:
 TIMBER FLOOR

STATE:
 XX - XXXXXXXXXXXX

DATE:
 01/24/2024

DESIGN CRITERIA

INTERNATIONAL BUILDING CODE
 IBC 2021, IBC 2018, IBC 2015 DESIGN CRITERIA

DEAD LOAD (D):

FLOOR COLLATERAL DEAD LOAD 10 PSF

ATTIC FLOOR LIVE LOAD (L):

FLOOR LIVE LOAD - 2X8 30 PSF
 FLOOR LIVE LOAD - 2X10 40 PSF

LOAD COMBINATIONS:

1.0 D
 1.0 D + 1.0 L

DESIGN DETAILS

MAX. UNBRACED LENGTH OF TOP CHORD	16'-0"
DEAD LOAD DEFLECTION	L / 180
LIVE LOAD DEFLECTION	L / 240
DEAD + LIVE LOAD DEFLECTION	L / 180

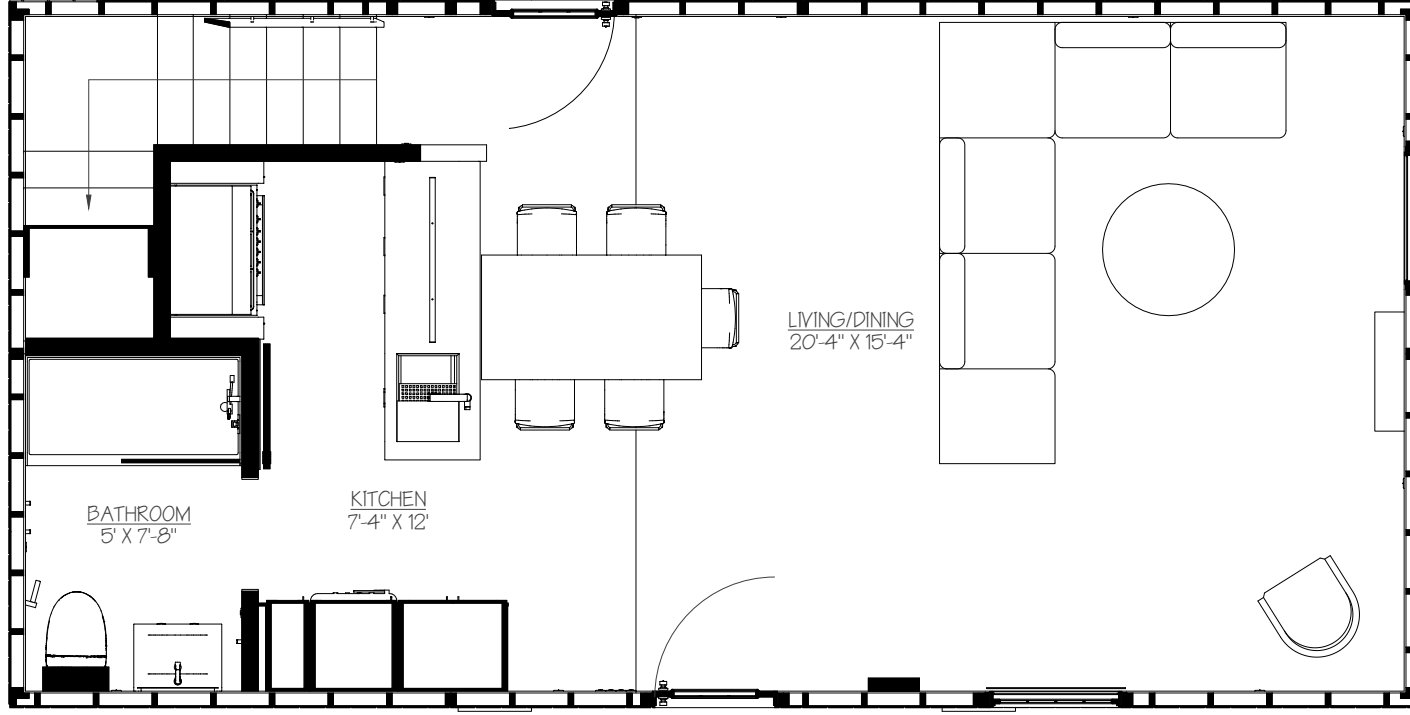
WOOD DESIGN NOTES:

C _D - LOAD DURATION FACTOR FOR WIND	1.6
C _D - LOAD DURATION FACTOR FOR SNOW	1.15
C _M - MOISTURE CONTENT	1.0
C _t - TEMPERTATURE FACTOR	1.0

NOTES:

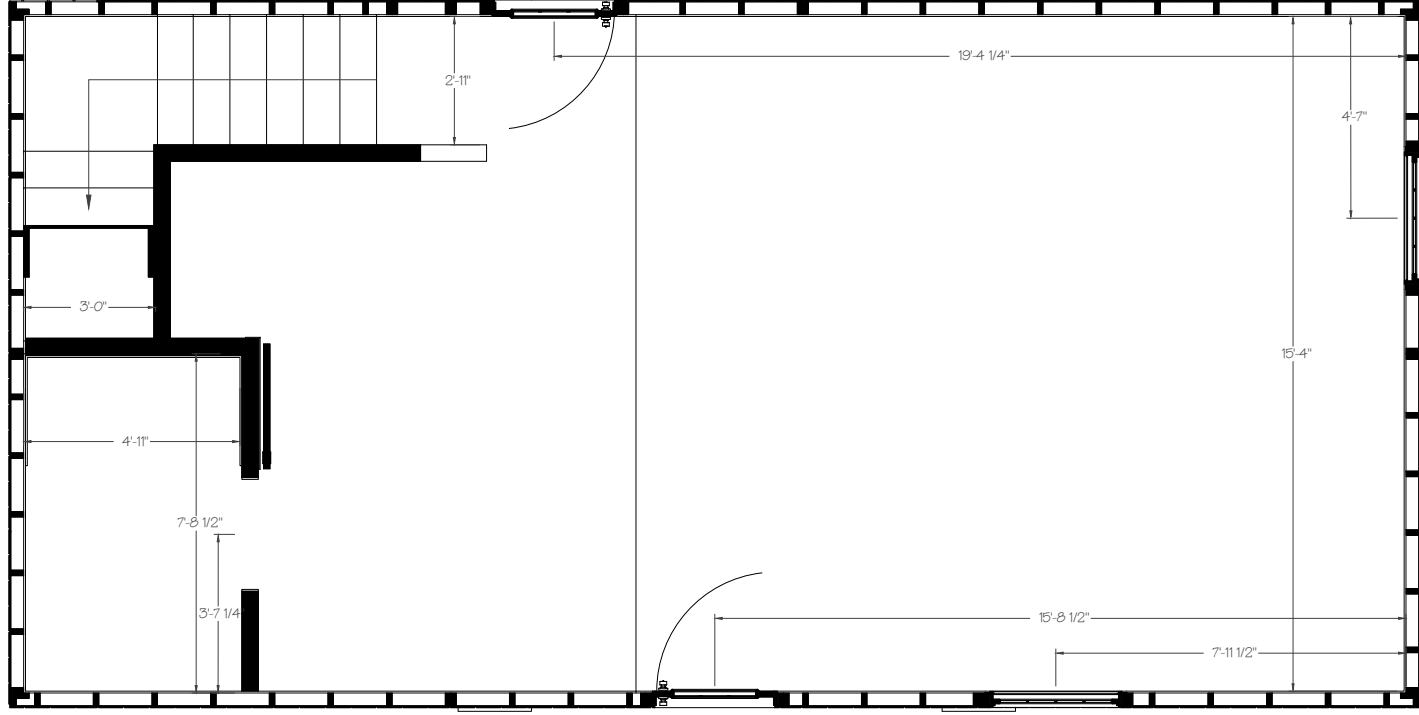
- BLOCKING TO BE PROVIDED EVERY 4'-0" C/C MAX.
- MAX. FLOOR JOIST SPAN IS 16'-0".

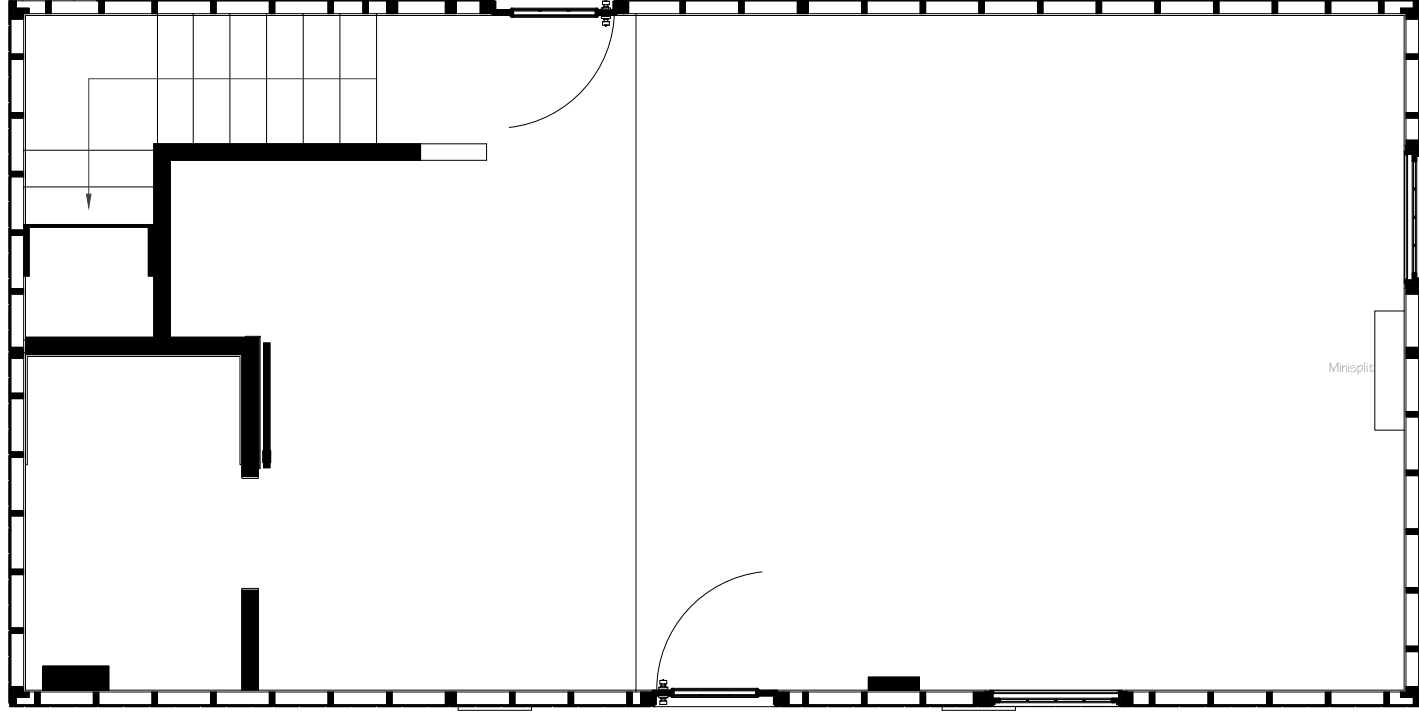
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 DATE SIGNED: XX/XX/XXXX

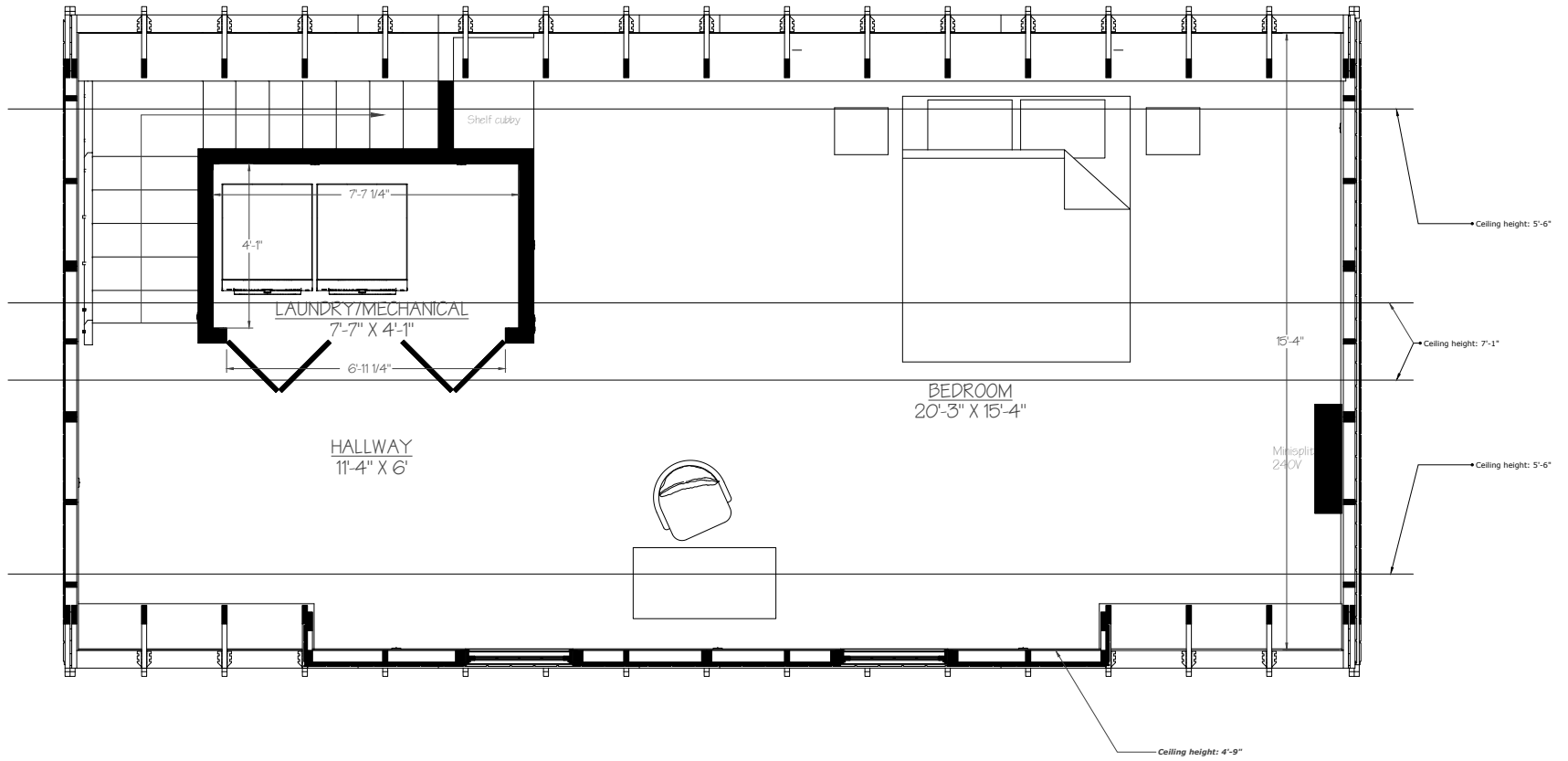


RPS Holdings, LLC
205 Arroyo Ln.
Greenville, PA 16125

SCALE: 1/8" = 1'-0"
DRAWN BY: DARRELL HAEMER
DATE: Jun 5, 2024







Ceiling height: 5'-6"

Ceiling height: 7'-1"

Ceiling height: 5'-6"

Ceiling height: 4'-9"

Min height: 240V

15'-4"

BEDROOM
20'-3" X 15'-4"

HALLWAY
11'-4" X 6'

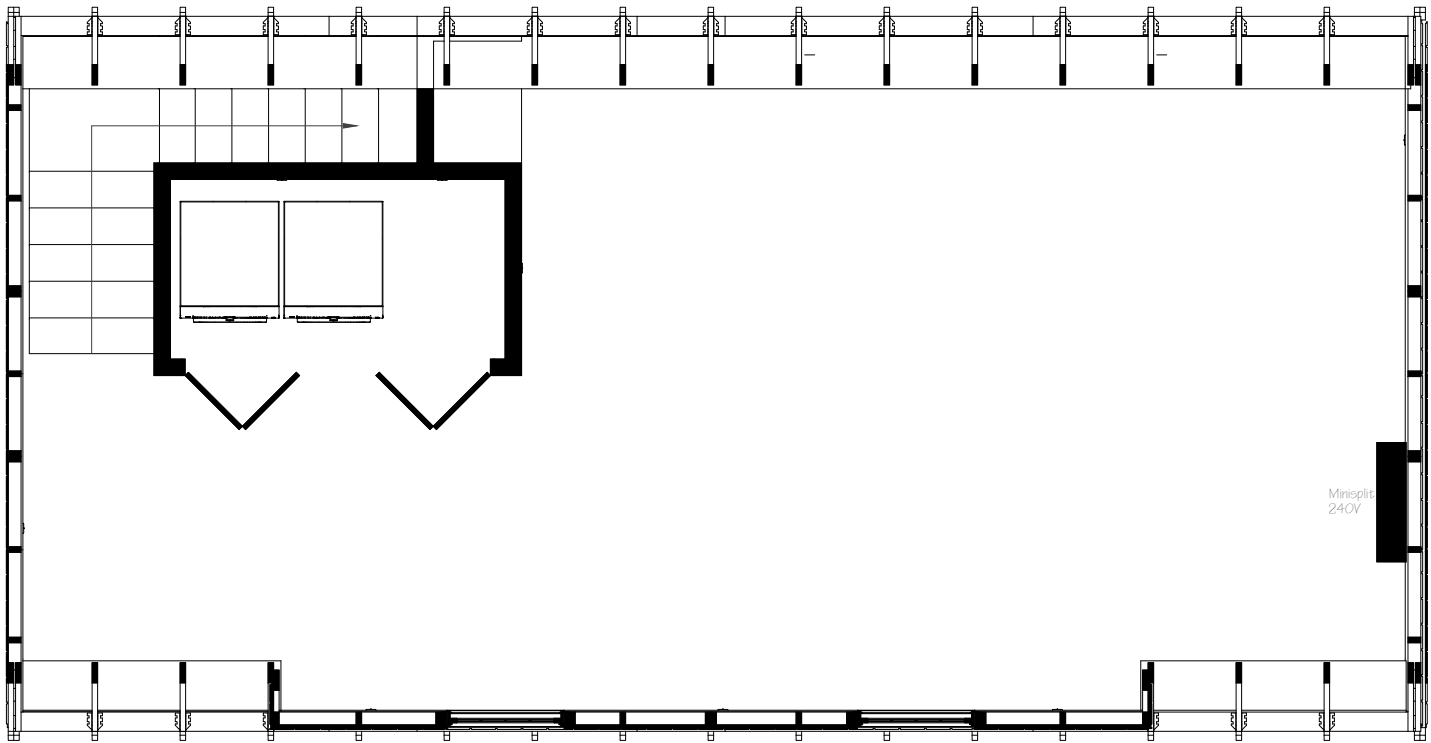
LAUNDRY/MECHANICAL
7'-7" X 4'-1"

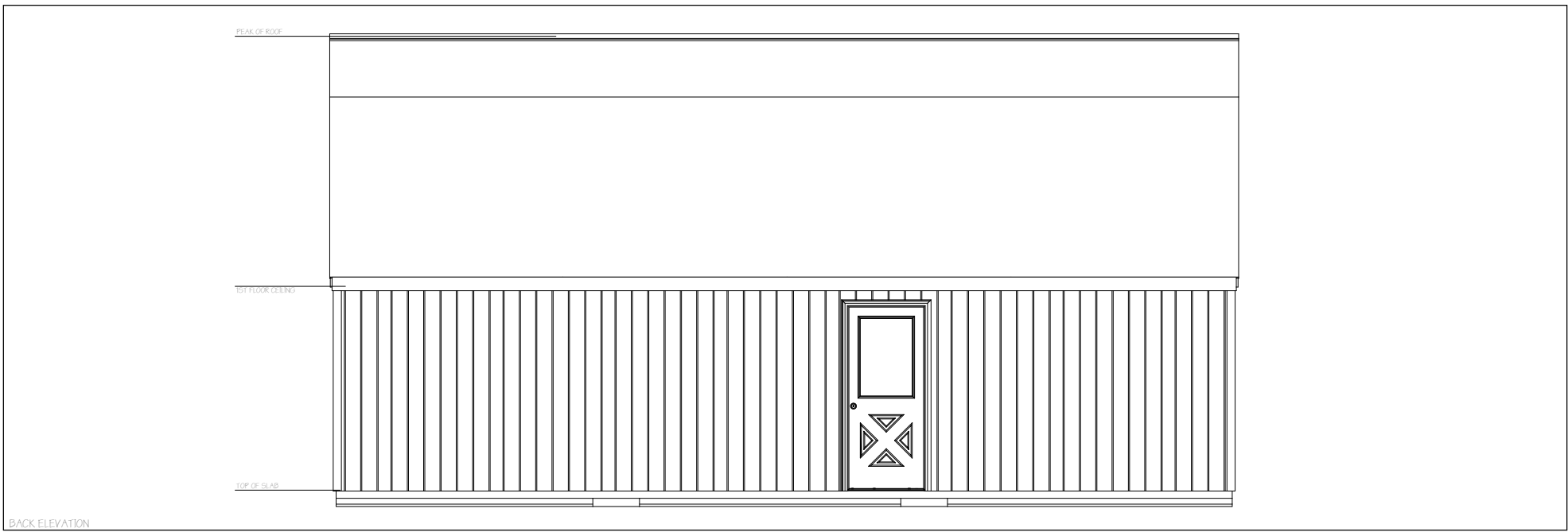
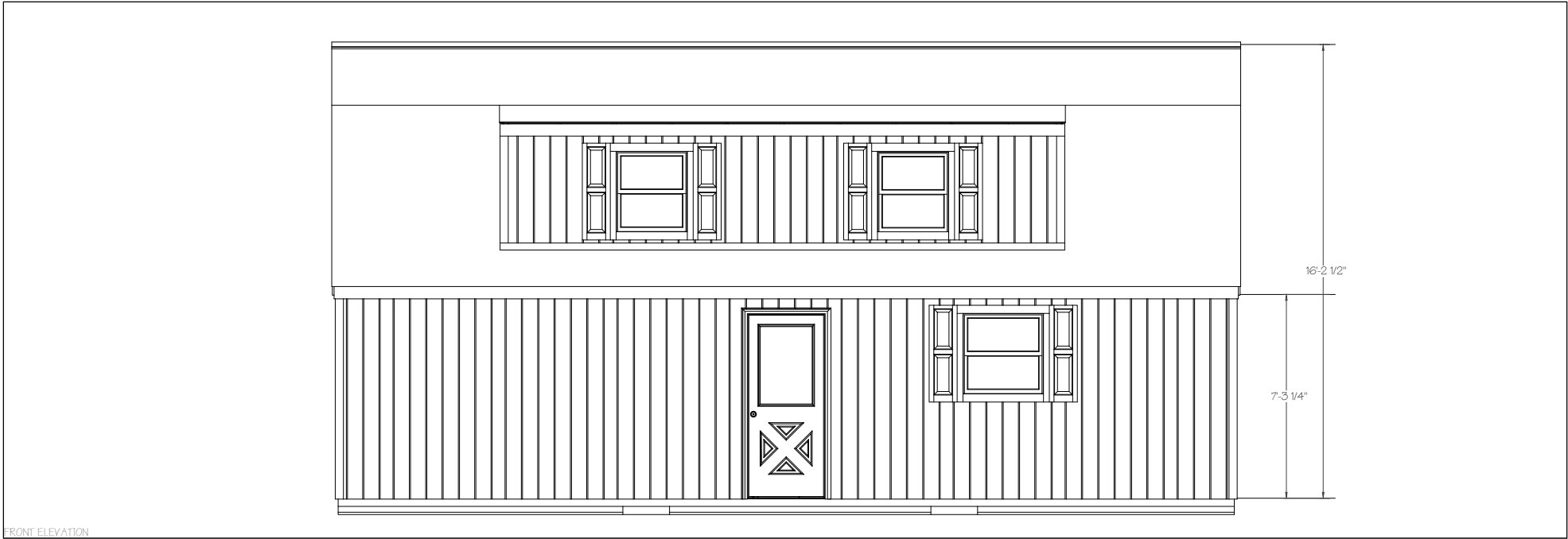
Shelf cubby

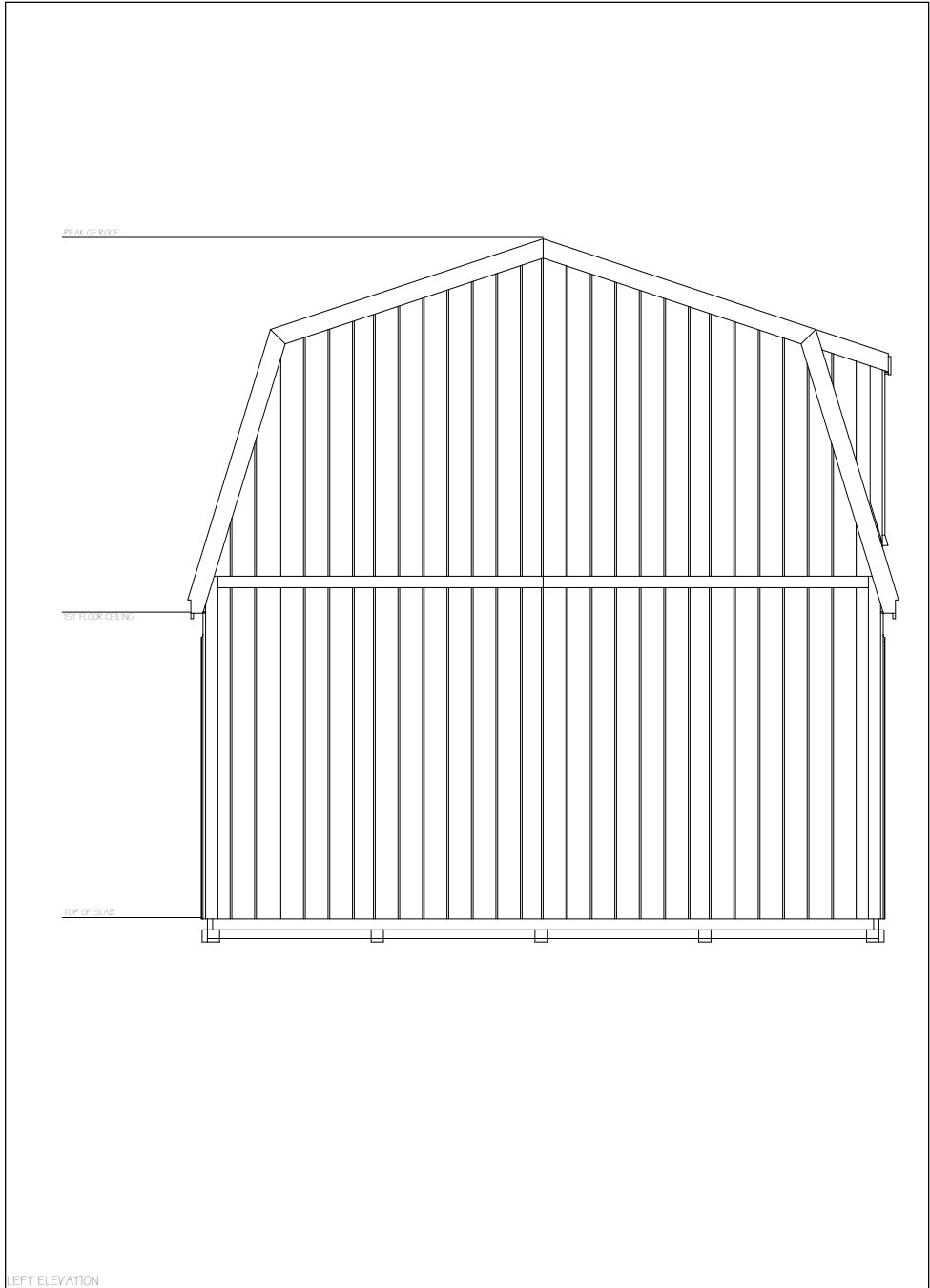
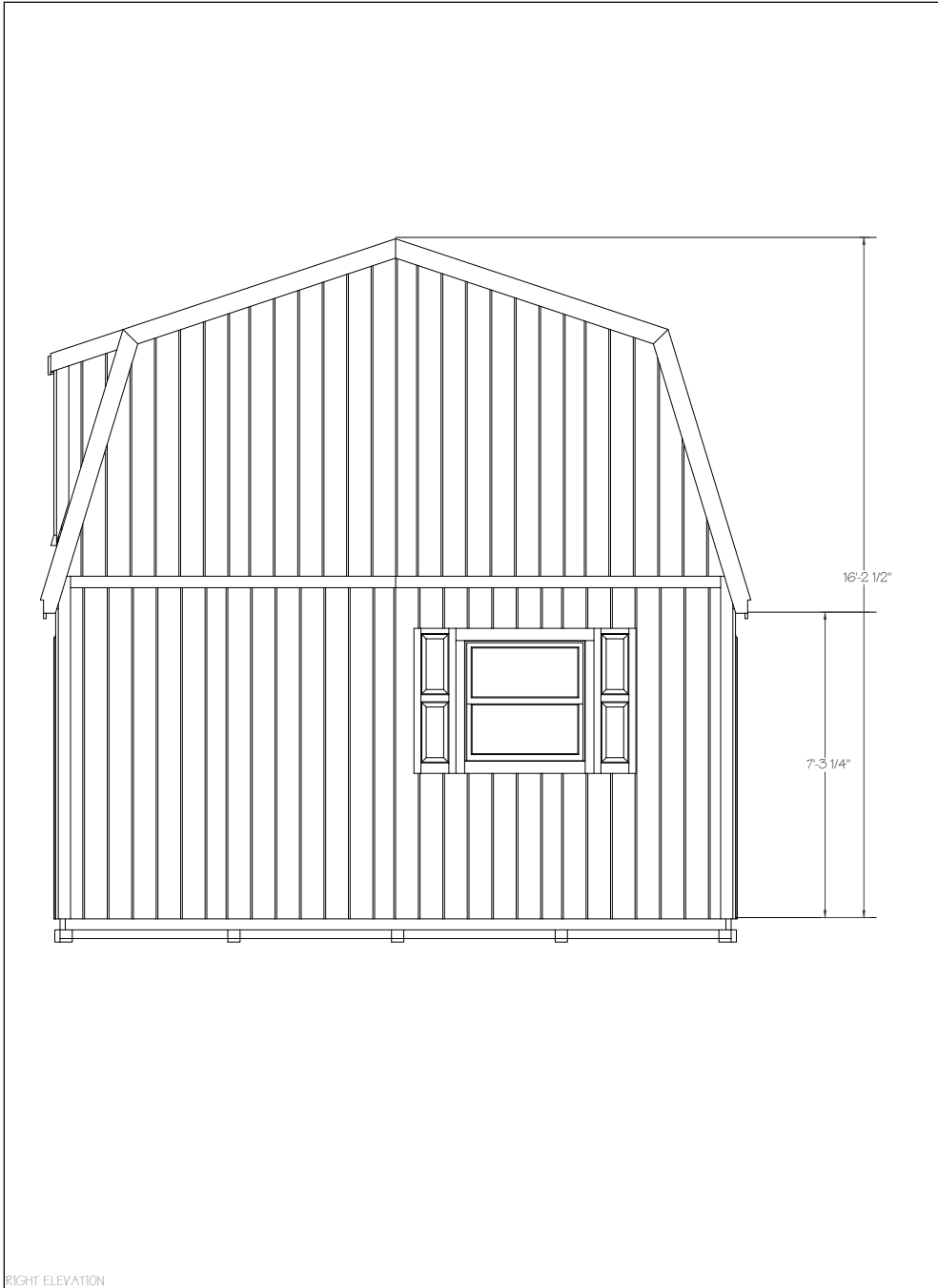
4'-1"

7'-7 1/4"

6'-11 1/4"









INTERIOR ELEVATION 1

CAMP REYNOLDS '32'
Interior Elevation 1



RBS Holdings, LLC
205 Arroyo Ln.
Greenville, PA 16125

SCALE: 1/8" @ ARCH D
DRAWN BY: DARRELL HAEMER
DATE: Jun 5, 2024

APPROVED:
CHECKED BY:

PAGE:
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INTERIOR ELEVATION 2

CAMP REYNOLDS '32'
Interior Elevation 2



RPS Holdings, LLC
205 Arroyo Ln.
Greenville, PA 16125

SCALE: 1/16" @ ARCH D
DRAWN BY: DARRELL HAEMER
DATE: Jun 5, 2024

APPROVED:
CHECKED BY:

PAGE:
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