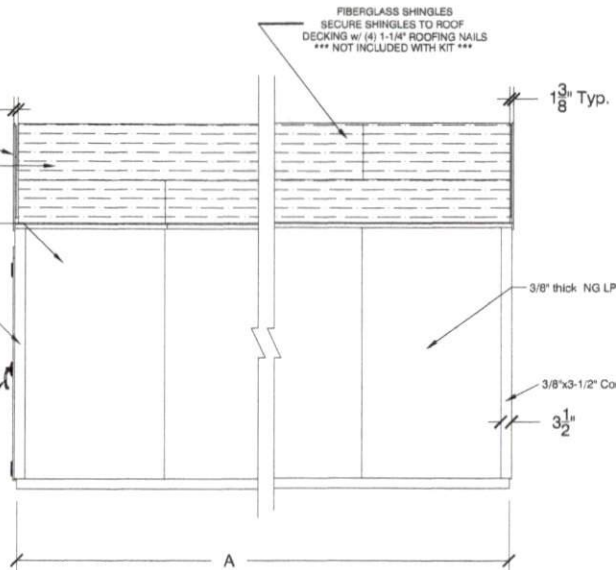
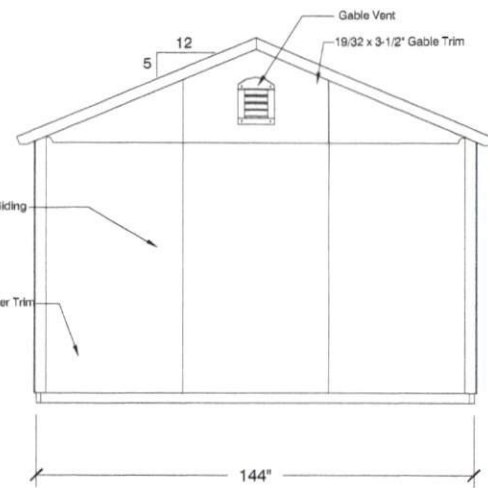


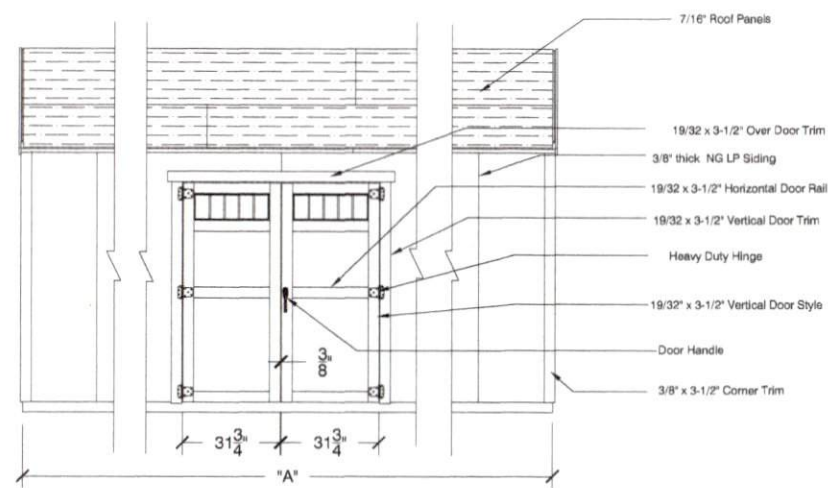
(A) GABLE ELEV. w/ DOORS
SCALE: 3/16" = 1'-0"



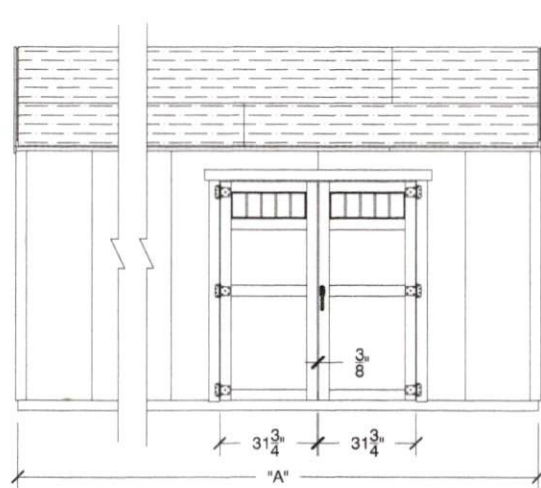
(B) EAVE ELEVATION w/o DOOR
SCALE: 3/16" = 1'-0"



(C) GABLE ELEVATION
SCALE: 3/16" = 1'-0"



(D) EAVE ELEVATION with DOOR CENTER
SCALE: 3/16" = 1'-0"



(E) EAVE ELEVATION with DOOR OFFSET
SCALE: 3/16" = 1'-0"

Brian Willis
2024.05.23 14:44:07 -04'00'



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Nappanee, Indiana 46550
Engineering COA C-4764**

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DESIGN CRITERIA: ASCE 7-16					
Depth Dim. "A"	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"
Wind Speed (Vult)	150 mph	Floor Live Load (psf)	50		
Wind Speed (Vasd)	117 mph	Floor Dead Load (psf)	10		
Wind Exposure	C	Roof Live Load (psf)	23.1		
Seismic Design Category	C	Roof Dead Load (psf)	10	Ground Snow Load (psf)	30



12'-0" HANOVER/LANCASTER GABLE STYLE ELEVATIONS			
SIZE	ADDRESS	DWG BY	LAST REVISION
D	1000 Tennes Dr. Monroe, MI 48192	Ken Sutter	Feb. 15, 2024
SCALE	As Noted	(800) 437-0794	SHEET 1 of 7

3/8" OSB or EZ PANEL Gusset
GLUED & NAILED WITH
(12) 4d 1-1/2" NAILS

2x4 DOUBLERS
ATTACHED TO TOP PLATE
USING 10d NAILS @ 12" O.C.
ON ALL FOUR (4) WALLS TYP.

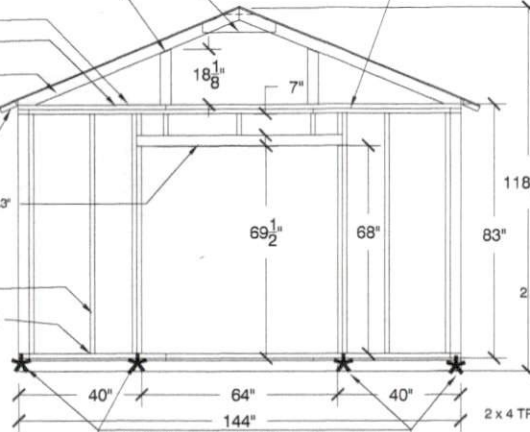
2 x 4 SPF Gable Connector

2 x 4 SPF Doubler
2 x 4 SPF Top Plate

2 x 4 SPF Rafter

2 x 6 SPF Eave Bd.
(2) 2 x 4 SPF Header
ON EDGE. Use (6) 0.131"x3"
nail end grain from wall
stud to header each end

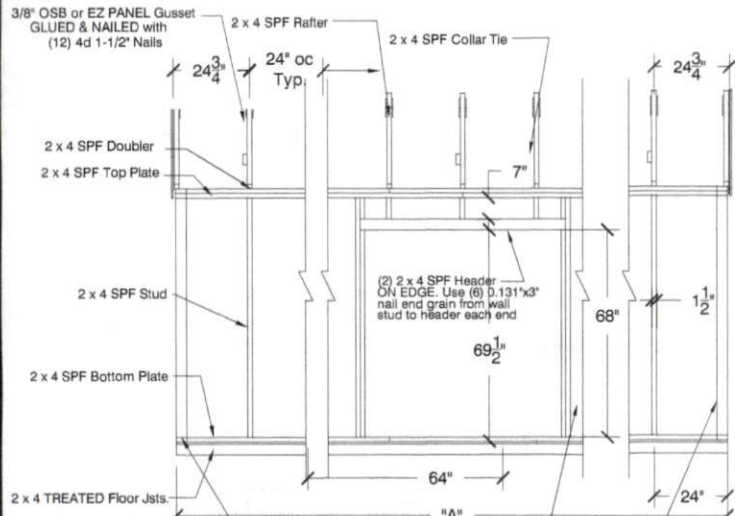
2 x 4 SPF Stud
2 x 4 SPF Bottom Plate



3/8" Smartside sheathing fastened to framing w/
0.131"x2.5" nails 6" o.c. edge, 12" o.c. field
Block all panel edges.
★ = Hold-down wall stud to ground for 1,918 lbf

For 10' unit length and smaller: edge fastening 6" o.c.
For 14' unit length and smaller: edge fastening 6" o.c.
For 18' unit length and smaller: edge fastening 4" o.c.

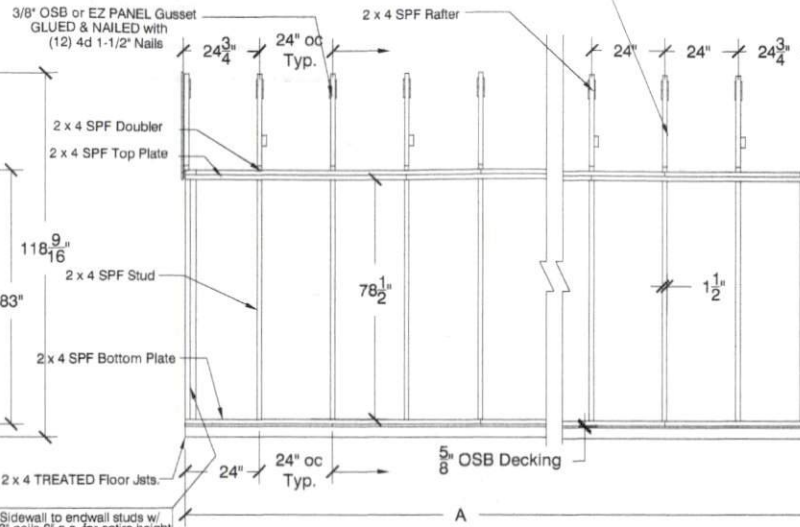
A GABLE FRAMING with DOOR
SCALE: 3/16" = 1'-0"



Fasten Sidelwall to endwall studs w/
0.131"x3" nails 6" o.c. for entire height
of wall

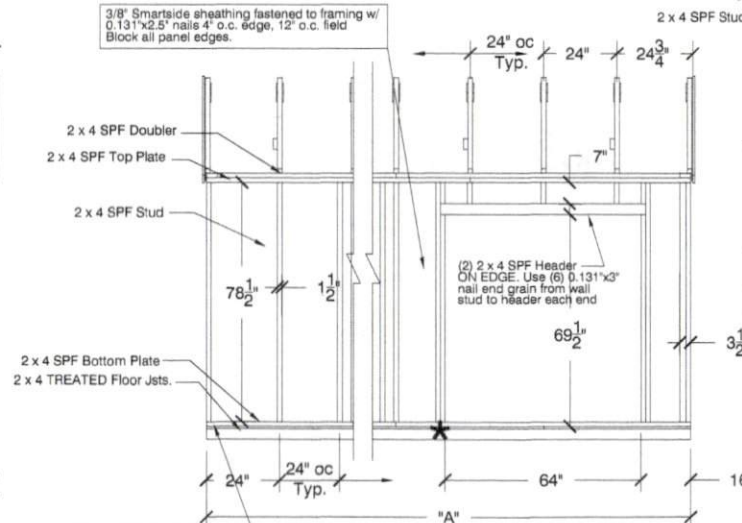
3/8" Smartside sheathing fastened to framing w/
0.131"x2.5" nails 3" o.c. edge, 12" o.c. field
Block all panel edges.

D EAVE SIDE FRAMING w/ DOOR CENTER
SCALE: 3/16" = 1'-0"



3/8" Smartside sheathing fastened to framing w/
0.131"x2.5" nails 6" o.c. edge, 12" o.c. field
Block all panel edges.

B EAVE FRAMING w/o DOOR
SCALE: 3/16" = 1'-0"

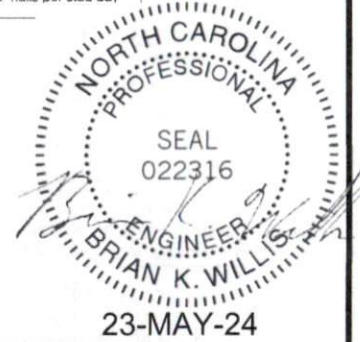


Fasten Sidelwall to endwall studs w/
0.131"x3" nails 6" o.c. for entire height
of wall

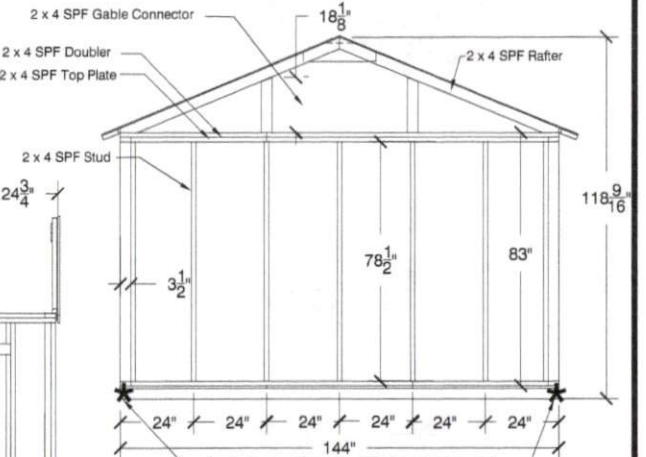
★ = Hold-down wall stud to ground for 1,469 lbf

E EAVE SIDE FRAMING w/ DOOR OFFSET
SCALE: 3/16" = 1'-0"

Attach studs to top and bottom plate
w/ (3) 0.131"x3" end grain nails
Attach bottom plate to rim joist
w/ (3) 0.131"x3" nails per stud bay



Fasten Sidelwall to endwall studs w/
0.131"x3" nails 6" o.c. for entire height
of wall



3/8" Smartside sheathing fastened to framing w/
0.131"x2.5" nails 6" o.c. edge, 12" o.c. field
Block all panel edges.
★ = Hold-down wall stud to ground for 1,918 lbf

C GABLE FRAMING
SCALE: 3/16" = 1'-0"

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Engineering COA C-4764

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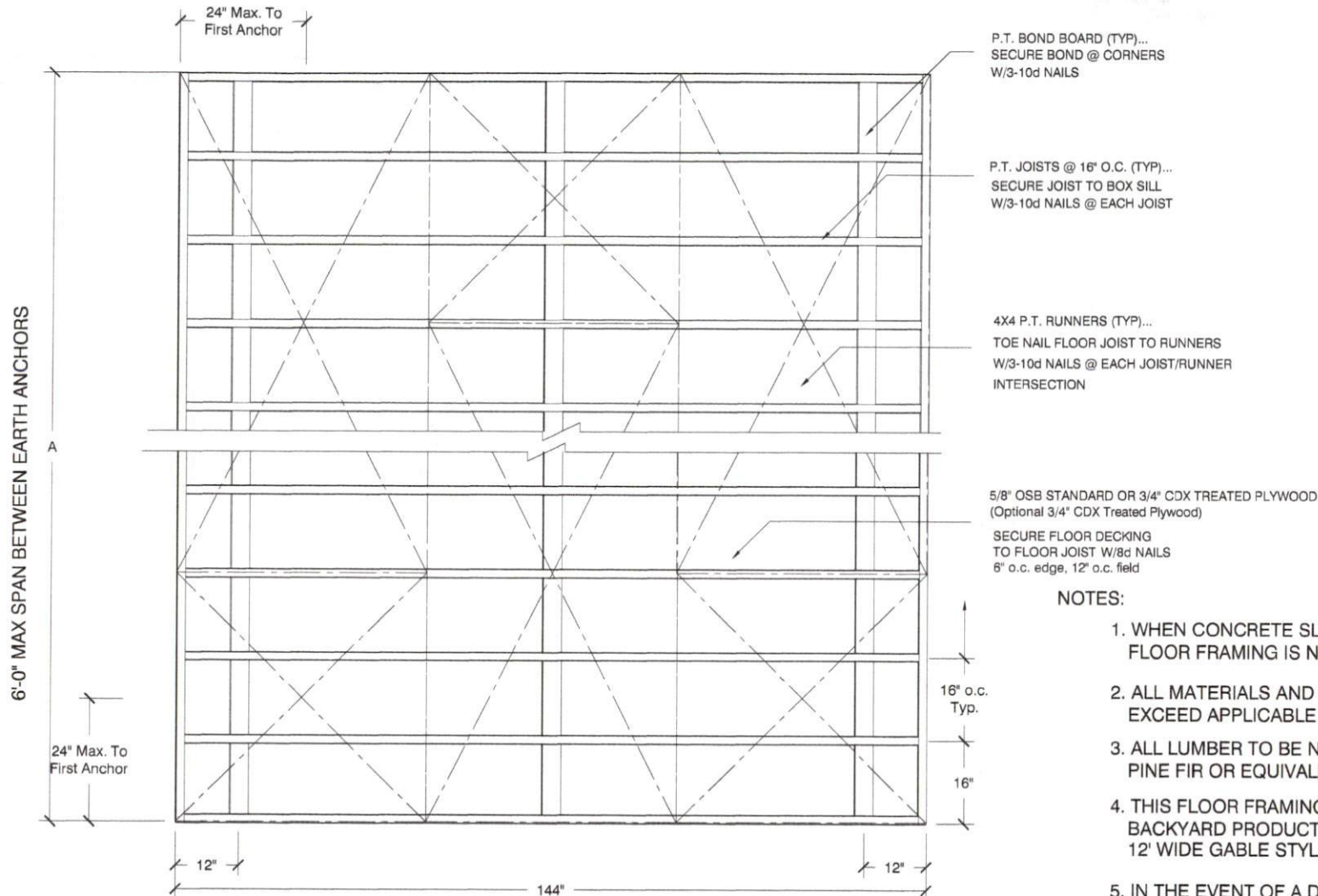
Depth Dim. "A" 12'-0" Base 16'-0" 18'-0" 20'-0" 24'-0"

Gable Style
12'-0" wide by:



12'-0" HANOVER/LANCASTER
GABLE STYLE FRAMING

SIZE: ADDRESS: 1000 Tennes Dr. DWS BV. Last Revision
D: Monroe, MI 48152 Ken Suttler Feb. 15, 2024
SCALE: As Noted (800) 437-0784 SHEET: 2 of 7



FLOOR FRAMING
SCALE: 3/8" = 1'-0"

NOTES:

1. WHEN CONCRETE SLAB IS USED, THIS FLOOR FRAMING IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. ALL LUMBER TO BE NO. 2 GRADE SPRUCE PINE FIR OR EQUIVALENT.
4. THIS FLOOR FRAMING PLAN IS FOR THE BACKYARD PRODUCTS, INC. 12' WIDE GABLE STYLE BUILDING
5. IN THE EVENT OF A DIMENSIONAL OR MATERIAL DISCREPANCY, NOTIFY BACKYARD PRODUCTS, INC.



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Engineering COA C-4764**

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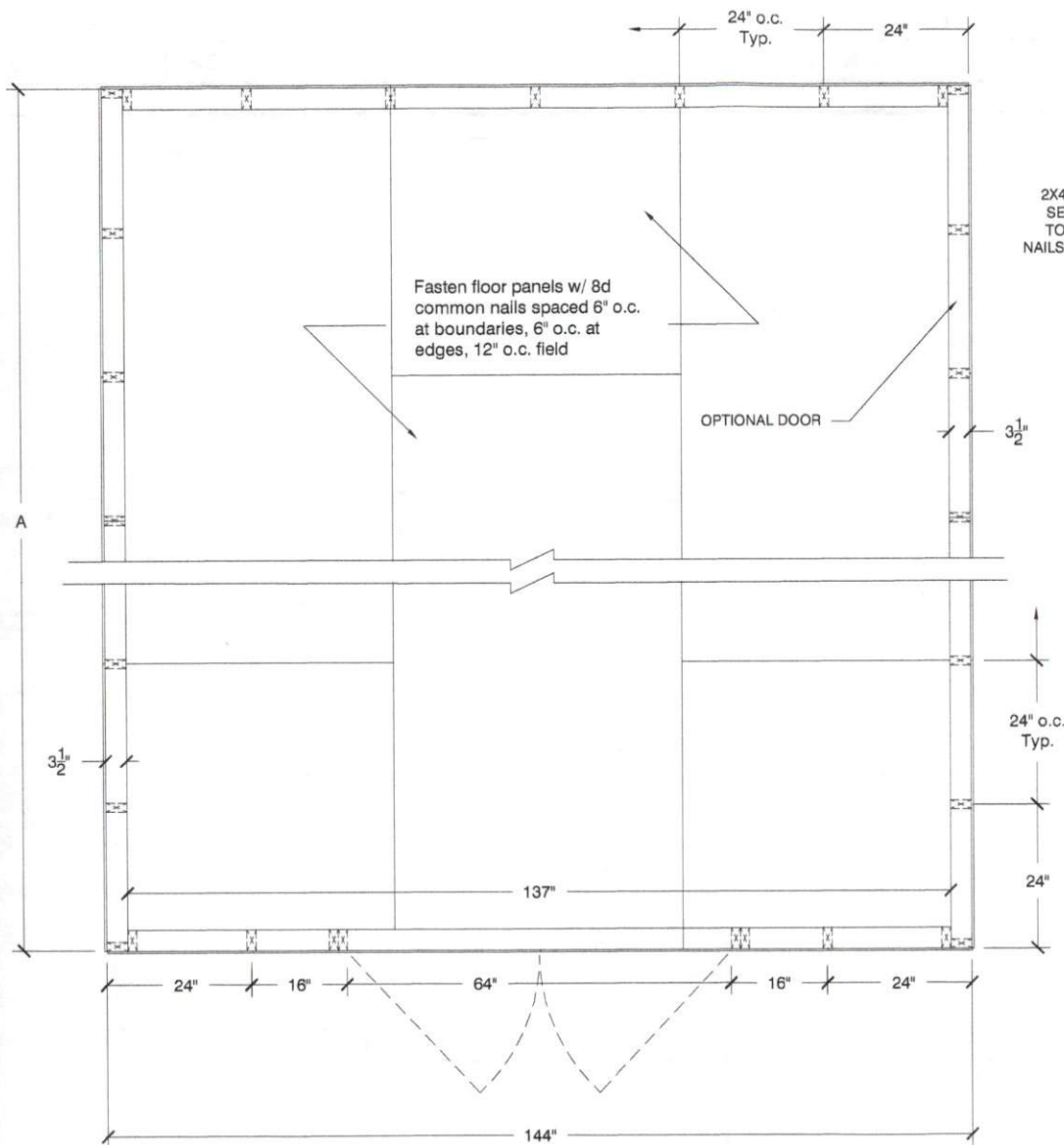
**12'-0" HANOVER/LANCASTER
GABLE STYLE FLOOR**

23-MAY-24



SIZE	ADDRESS	DWG BY	DATE
D	1000 Ternes Dr. Monroe, MI 48162	Ken Suttler	Feb. 15, 2024
SCALE	As Noted	(800) 437-0784	SHEET 3 of 7

Depth Dim. "A"	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"
Gable Style 12'-0" wide by:					



TYP. WALL FRAMING PLAN
SCALE: 3/8" = 1'-0"

NOTE:

1. THIS WALL PLAN IS GOOD FOR THE 12" WIDE GABLE ONLY. ALL MATERIAL AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.

Fasten roof panels w/ 8d common nails spaced 6" o.c. at floor boundaries, 6" o.c. at edges, 12" o.c. field

2X4 COLLAR TIE @ 48" O.C.
SECURE COLLAR TIES TO RAFTERS W/16-10d NAILS (8 NAILS EACH END RAFTER)

FIBERGLASS SHINGLES SECURED TO ROOF DECKING W/1 1/4" ROOF NAILS
1-LAYER 15# FELT
7/16" OSB ROOF DECKING
SEE ROOF FRAMING DETAIL

2 x 4 SPF RAFTER

Attach Rafter to Top plate w/ (1) H1

2 x 4 DOUBLER
2 x 4 SPF TOP PLATE

SHEATHING GRADE 3/8" SMARTSIDE PANEL NAILED W/8d NAILS



2 x 4 SPF STUD 24" O.C. TYP.

2 x 4 SPF BOTTOM PLATE

WALL SECTION
SCALE: 3/8" = 1'-0"

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Engineering COA C-4764**

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**12'-0" HANOVER/LANCASTER
GABLE STYLE WALLS**

Depth Dim. "A "

12'-0" Base

16'-0"

18'-0"

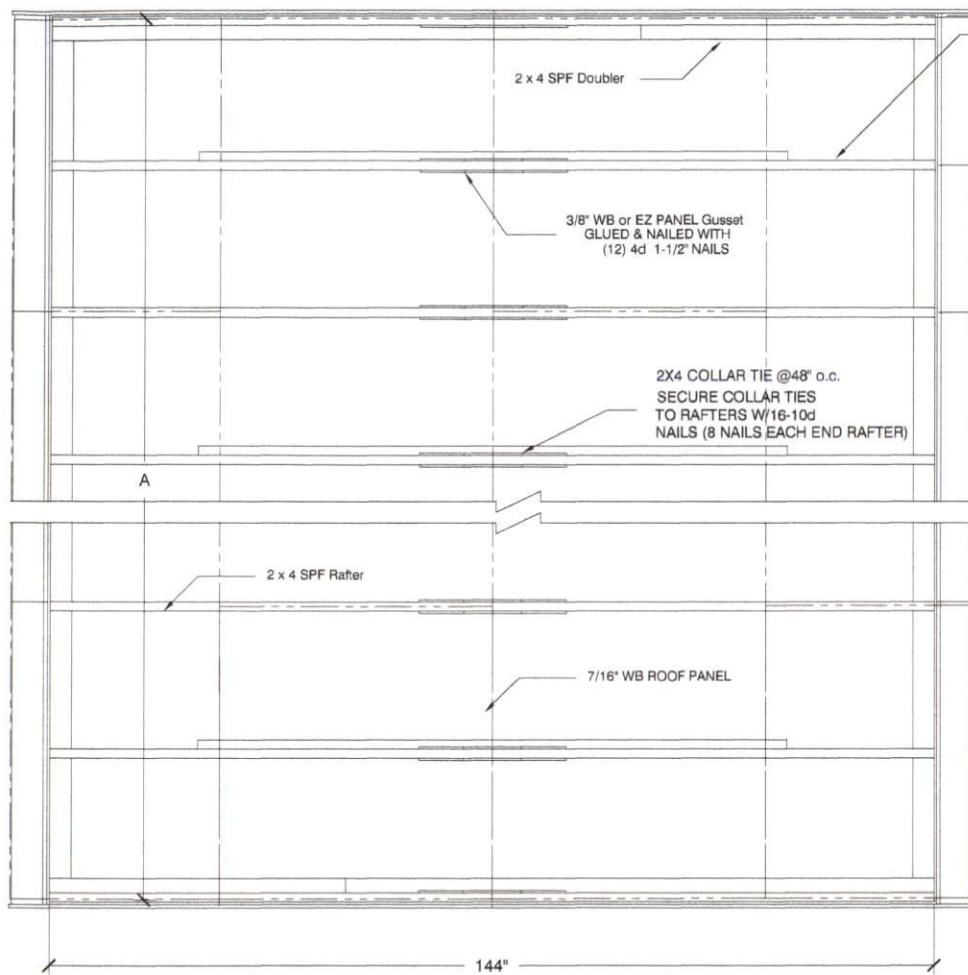
20'-0"

24'-0"

Gable Style
12'-0" wide by:



SIZE D	ADDRESS 1000 Tennes Dr. Monroe, MI 48162	DWG BY Marc Donnelly	LAST REVISION Feb. 15, 2024
SCALE As Noted	(800) 437-0784		SHEET 4 of 7



(A/5) ROOF FRAMING PLAN
SCALE: 3/8" = 1'-0"

NOTE:

1. THIS WALL PLAN IS GOOD FOR THE 12' WIDE GABLE ONLY. ALL MATERIAL AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.

Fasten roof panels w/ 8d common nails spaced 6" o.c. at floor boundaries, 6" o.c. at edges, 12" o.c. field

24" o.c. Typ.

2X4 COLLAR TIE @48" o.c.
SECURE COLLAR TIES TO RAFTERS W/16-10d NAILS (8 NAILS EACH END RAFTER)

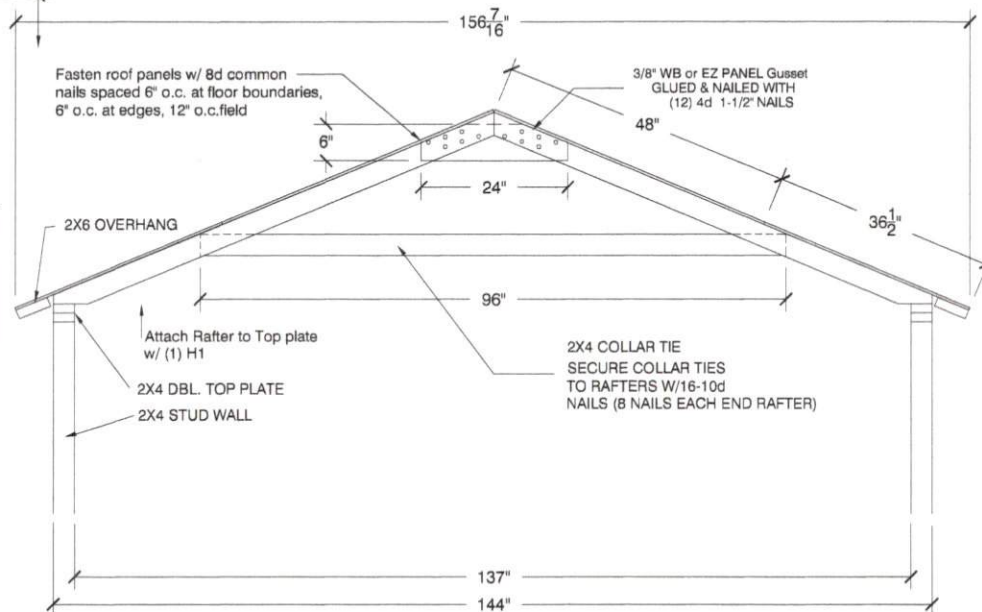
Fasten roof panels w/ 8d common nails spaced 6" o.c. at floor boundaries, 6" o.c. at edges, 12" o.c. field

2X6 OVERHANG

Attach Rafter to Top plate w/ (1) H1

2X4 DBL. TOP PLATE

2X4 STUD WALL



(B/5) RAFTER SECTION
SCALE: 3/8" = 1'-0"

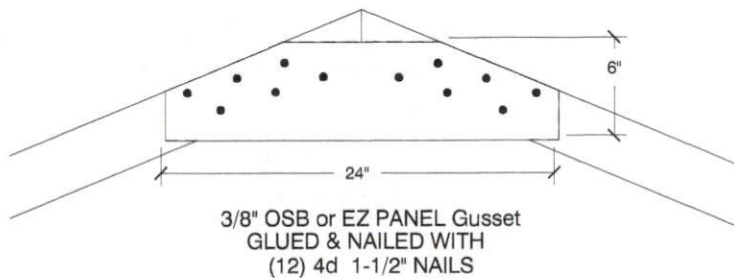
NOTES:

1. Approved Shingles installed per manufacturers instructions with 4 nails per shingle
2. Drip edge must overlap 2" and nailed every 12" max.

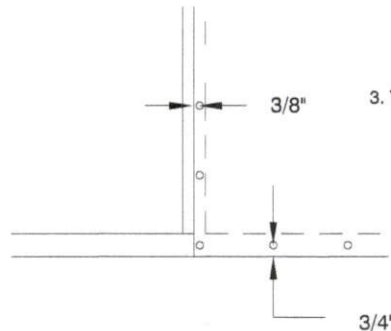
NTA Engineering, P.C., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA C-4764

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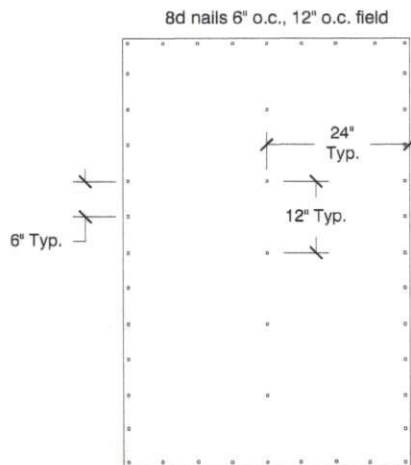
Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"			12'-0" HANOVER/LANCASTER GABLE STYLE ROOF
Gable Style 12'-0" wide by:								
								SIZE ADDRESS D 1000 Ternes Dr. Morrow, MI 48162 SCALE As Noted DWS BY: Ken Suttler (800) 437-0784 SHEET 5 of 7 Last Revision Feb. 15, 2024



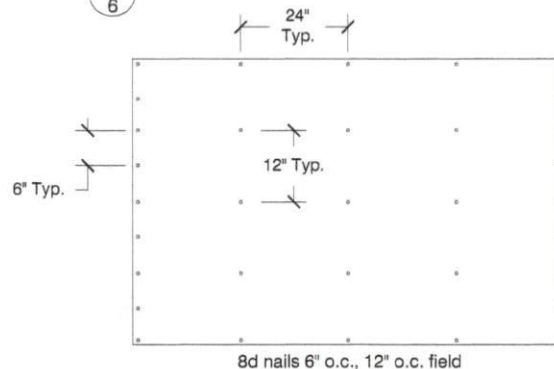
A
6 **ROOF GUSSET CONNECTION DETAIL**
SCALE: 1" = 1'-0"



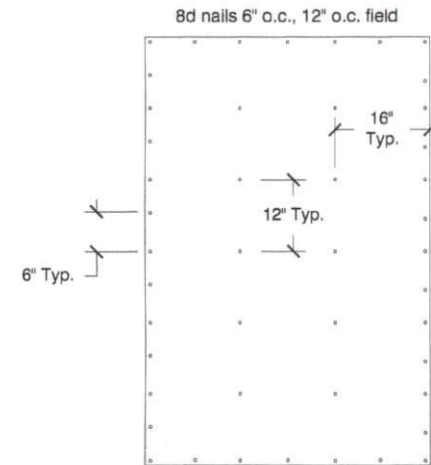
E
6 **SINGLE EDGE NAILING**



B
6 **WALL PANEL TYP. NAIL PATTERN**



C
6 **ROOF PANEL TYP. NAIL PATTERN**



D
6 **FLOOR PANEL TYP. NAIL PATTERN**

- NOTES:**
1. THESE STRUCTURAL DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THE SHOWN STORAGE BUILDING. IN THE EVENT OF DIMENSIONAL DISCREPANCY, NOTIFY THE ENGINEER FOR RESOLUTION OF CONFLICT. ANY DEVIATION FROM THESE DRAWINGS MUST BE APPROVED BY THE ENGINEER
 2. MATERIALS
 - * ALL LUMBER TO BE NUMBER 2 GRADE SPRUCE PINE FIR OR EQUIVALENT.
 - * ALL PLYWOOD SHALL CONFROM TO THE LATEST EDITION OF APA SPECIFICATIONS.
 - * ALL CONNECTORS/FASTENERS AND ITS SPACING SHALL MEET THE APPLICABLE CODES.
 - * ALL MATERIALS AND LABOR PER APPLICABLE LOCAL CODES
 - * SmartSide Panel: 3/8" APA RATED (PRP-108) AS MANUFACTURED BY LOUISIANA-PACIFIC COMPANY, PORTLAND, OR. NER 124 CODE RECOGNITION.
 - * O.S.B DECKING: 7/16" APA RATED ORIENTED STAND BOARD AS MANUFACTURED BY LOUISIANA-PACIFIC COMPANY, PORTLAND, OR.
 3. THESE STRUCTURES ARE TO BE USED AS STORAGE ONLY AND NOT FOR HABITATION



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Nappanee, Indiana 46550
Engineering COA C-4764**

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Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	
Gable Style 12'-0" wide by:						

23-MAY-24



**12'-0" HANOVER/LANCASTER
GABLE STYLE NOTES**

SIZE	ADDRESS	DWG BY	DATE
D	1000 Terres Dr. Monroe, MI 48162	Kerr Sutter	FEB 15, 2024
SCALE	As Noted	(800) 437-0784	SHEET 6 of 7

5/8" OSB OR CDX TREATED PLYWOOD
SECURE FLOOR DECKING TO FLOOR JOIST
WITH 0.131 x 2.5" long 8d NAILS @ 6" O.C.
@ EDGES & 12" O.C.
@ INTERMEDIATE SUPPORTS

2x4 P.T. JOISTS @ 16" O.C. (TYP)
SECURE JOIST TO BOX SILL @ EACH JOIST WITH
(3) 10d

4x4 P.T. RUNNERS (TYP)...
TOE NAIL FLOOR JOIST TO RUNNERS
WITH (3) 10d TOE NAILS
@ EACH JOIST / RUNNER INTERSECTION

PRESSURE TREATED WOOD SHIMS
FOR LEVELING WHEN NECESSARY

4" X 12" X 12" SOLID CONC. BLOCK
@ 42" O.C. (TYP) @ EACH RUNNER

SHEATHING GRADE 3/8" EZ PANEL
BOARD NAILED WITH
0.131 dia. x 2.5" long nails

2 X 4 SPF STUD @ 24" O.C.

2 X 4 SPF BOTTOM PLATE

BOTTOM PLATE TO PERIMETER BEAM
w/ (3) 10d nails per stud bay

(3) 10d NAILS INTO
EACH FLOOR JOISTS

2 x 4 P.T. BOND BOARD

8" Min.
to Sheathing

30" SINGLE HELIX ANCHOR
MODEL MTE-30 AS MFD.
BY TIEDOWN ENGINEER, ATLANTA, GA.
WITH IN 24" OF CORNERS & 72" O.C. MAX.
OR AS REQUIRED BY LOCAL CODE
30 DEGREES TO VERTICAL IN THIS PLANE (TYP)

Min. (1) anchor at each each side of door

WOOD FLOOR FRAMING DETAIL

SCALE: 3/4" = 1'-0"

NOTES:

1. WHEN MONOLITHIC SLAB IS USED, THIS FLOOR FRAMING IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. ALL LUMBER TO BE NO. 2 GRADE SPRUCE PINE FIR OR EQUIVALENT
4. THIS FLOOR FRAMING PLAN IS FOR THE BACKYARD PRODUCTS, LLC 10' WIDE GABLE ANY DEVIATION OR MODIFICATION IS STRICTLY PROHIBITED.
5. IN THE EVENT OF A DIMENSIONAL OR MATERIAL DISCREPANCY, NOTIFY BACKYARD PRODUCTS, LLC

4" CONCRETE

OR FIBERMESH

4" COMPACTED
SAND OR GRAVEL
SEE NOTE 4

*** (1) Anchor Minimum On ***
Each Side Of Door Opening

SHEATHING GRADE 3/8" EZ PANEL
BOARD NAILED WITH
0.131 dia. x 2.5" long nails

2 X 4 SPF STUD @ 24" O.C.

1/2" WEDGE ANCHOR BOLT 30" O.C. 8-1/2" LONG
(...or other approved fastener...)

2 X 4 SPF BOTTOM PLATE

2 X 4 P.T. SILL PLATE

2" NAILS EVERY 3"
ANGLED INTO FLOOR
FRAME, 1/2" FROM EDGE

8" Min. to Sheathing

12" Minimum

12"

NOTES:

1. WHEN FLOOR FRAMING IS USED, THIS MONOLITHIC SLAB IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. UNLESS OTHERWISE SPECIFIED OR SUPERSEDED BY APPLICABLE LOCAL CODES, MATERIAL TO BE 3000 PSI CONCRETE, #4 (0.5 dia.) REBAR SPACED 10" o.c.
4. THIS MONOLITHIC SLAB IS DESIGNED FOR THE BACKYARD PRODUCTS, LLC 10' WIDE GABLE ANY DEVIATION AND MODIFICATION IS STRICTLY PROHIBITED.

MONOLITHIC CONCRETE SLAB DETAIL

SCALE: 3/4" = 1'-0"



23-MAY-24

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Engineering COA C-4764

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FOUNDATION DETAILS

SIZE	ADDRESS	DWG BY	Last Revision
A	1000 Tennesse Drive Monroe, MI 48162	Keri Sutter	July 15, 2021
SCALE	As Noted	(800) 221-1849	SHEET 7 of 7